



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

**BULLETIN NO. 7 (BOB/07/2022)**

**TIME OF ISSUE: 1420 HOURS IST**

**DATED: 23.10.2022**

**FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)**

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**Subject: Deep Depression over westcentral & adjoining eastcentral Bay of Bengal  
(Cyclone Alert: West Bengal coast)**

The deep depression over westcentral & adjoining eastcentral Bay of Bengal moved northwestwards with a speed of 18 kmph during past 6 hours, and lay centered at 1130 hours IST of today, the 23rd October over the same region near latitude 15.8<sup>0</sup>N and longitude 88.1<sup>0</sup>E, about 680 km northwest of Port Blair, 650 km south of Sagar Island and 1200 km southwest of Barisal (Bangladesh).

It is very likely to move northwestwards during next 06 hrs and intensify into a cyclonic storm over central Bay of Bengal. Thereafter, it would recurve and move north-northeastwards and cross Bangladesh coast between Tinkona Island and Sandwip, close to Barisal around 25th October early morning.

**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
23.10.22/1130	15.8/88.1	55-65 gusting to 75	Deep Depression
23.10.22/1730	16.6/87.8	60-70 gusting to 80	Cyclonic Storm
23.10.22/2330	17.7/88.0	65-75 gusting to 85	Cyclonic Storm
24.10.22/0530	18.6/88.5	75-85 gusting to 95	Cyclonic Storm
24.10.22/1130	19.5/89.0	85-95 gusting to 105	Severe Cyclonic Storm
24.10.22/2330	21.3/90.0	90-100 gusting to 110	Severe Cyclonic Storm
25.10.22/1130	23.0/91.0	65-75 gusting to 85	Cyclonic Storm
25.10.22/2330	24.7/92.1	40-50 gusting to 60	Depression
26.10.22/1130	26.5/93.3	25-35 gusting to 45	Well Marked Low Pressure Area

**Warnings:**

**(i) Rainfall (warning graphics enclosed)**

**Andaman and Nicobar Islands:** Light to moderate rainfall at most places with **heavy rainfall** at isolated places over Andaman & Nicobar Islands on 23<sup>rd</sup> October.

**Odisha:** Light to moderate rainfall at many places likely over coastal districts of Odisha on 23<sup>rd</sup> and light to moderate rainfall with isolated **heavy rainfall** likely over the same region on 24<sup>th</sup> and isolated **heavy rainfall** over north coastal Odisha districts on 25<sup>th</sup> October.

**West Bengal:** Light to moderate rainfall at a few places with isolated heavy rainfall likely over coastal districts (South & North 24 Parganas and East & adjoining East Medinipur) of West Bengal on 23<sup>rd</sup>. Light to moderate rainfall at most places with isolated **heavy to very heavy rainfall** is likely over coastal districts of West Bengal (South & North Parganas, East & adjoining West Medinipur) on 24<sup>th</sup> October. Light to moderate rainfall at many with isolated **heavy to very heavy rainfall** is likely over coastal districts (South & North Parganas and Nadia) of West Bengal on 25<sup>th</sup> October.

**Northeastern States:**

Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places is likely over north Assam, Arunachal Pradesh, Nagaland, Manipur, **heavy to Extremely heavy rainfall** is likely over South Assam, East Meghalaya, Mizoram, & Tripura on 24<sup>th</sup> October. Light to moderate rainfall at most places with isolated **heavy to very heavy rainfall** is likely over the same region on 25<sup>th</sup> and isolated **heavy rainfall** is likely over Arunachal Pradesh, northeast Assam and Nagaland on 26<sup>th</sup> October.

**(ii) Wind warning:**

**23<sup>rd</sup> October:** Squally wind speed reaching 50-60 kmph gusting to 70 kmph is prevailing over westcentral and adjoining eastcentral & southeast Bay of Bengal. It would gradually increase becoming gale wind speed reaching 65-75 kmph gusting to 85 kmph over the same region from 23<sup>rd</sup> evening. Squally wind speed reaching 35-45 kmph gusting to 55 kmph is very likely along & off Odisha and West Bengal coasts and Andaman Islands and adjoining north Andaman Sea.

**24<sup>th</sup> October:** Gale wind speed reaching 80-90 kmph gusting to 100 kmph is likely over westcentral and adjoining areas of eastcentral & north Bay of Bengal. It would gradually increase becoming 90-100 kmph gusting to 110 kmph over the same region from 24<sup>th</sup> evening

till 25<sup>th</sup> morning. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is very likely along & off Odisha and West Bengal coasts. It would gradually increase becoming 60-80 kmph gusting to 90 kmph along and off West Bengal coast and 50-60 kmph gusting to 70 kmph along and off north Odisha coast from evening. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Mizoram & Tripura.

**25<sup>th</sup> October:** Gale wind speed reaching 90-100 kmph gusting to 110 kmph is likely over north Bay of Bengal and along & off Bangladesh coast; 70-90 kmph gusting to 100 kmph likely along & off 24 Parganas District and 60-70 kmph gusting to 80 kmph along & off east Medinipur district off West Bengal coast till morning. It would gradually decrease becoming 45-55 kmph gusting to 65 kmph over coastal areas of Bangladesh after evening. Squally wind speed reaching 45-55 gusting to 65 kmph is likely along and off Balasore district & 40-50 kmph gusting to 60 kmph along & off remaining north coastal districts of Odisha.

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely over Tripura and 45-55 kmph gusting to 65 kmph is likely over Mizoram, south Assam and adjoining east Meghalaya & Manipur.

### **(iii) Sea condition**

**23<sup>rd</sup> October:** Very rough over central & adjoining southeast Bay of Bengal from morning. It would become **high** from evening over central Bay of Bengal roughly along & off Odisha-West Bengal-Bangladesh coasts.

**24<sup>th</sup> October:** **High** over westcentral and adjoining eastcentral & north Bay of Bengal; **Rough to very rough** along & off Odisha-West Bengal-Bangladesh coasts and would become **very rough to high** from 24<sup>th</sup> evening along and off West Bengal-Bangladesh coasts.

**25<sup>th</sup> October:** **High to very high** over north Bay of Bengal along & off Bangladesh-West Bengal coasts.

### **(iv) Storm Surge Warning (warning graphics enclosed)**

(I) Tidal wave of about 2.0 m height above astronomical tide is likely to inundate low lying areas of Bangladesh coast near the landfall area around the time of landfall.

(ii) Tidal wave of about 1.0 m height above astronomical tide is likely to inundate low lying areas of West Bengal (North & South 24 Parganas) around the time of landfall.

(iii) Astronomical tide of about 5-6 m height is likely along & off West Bengal-Bangladesh coast on 25th October.

### **(v) Fishermen Warning (warning graphics enclosed)**

Fishermen are advised not to venture into central Bay of Bengal on 23rd and 24th, north & adjoining central Bay of Bengal on 24th and 25th October, 2022.

Fishermen are advised not to venture into Sea along and off Odisha, West Bengal & Bangladesh coasts during 23rd to 25th October. Fishermen out at sea are advised to return to the coast.

### **(vi) Damage expected over coastal districts of West Bengal (South and North 24 Parganas and East Mednipur)**

- Damage to thatched huts.
- Damage to power and communication lines due to breaking of branches.
- Major damage to Kutcha and minor damage to Pucca roads.
- Damage to paddy crops, banana, papaya trees and orchards.
- Sea water inundation in low lying areas after erosion of Kutcha embankments

**(vii) Damage expected over Tripura, Mizoram, East Meghalaya, Manipur and South Assam**

- Damage to standing crops including agricultural and horticultural crops due to heavy rain and squally winds
- Breaking of tree branches and uprooting of small trees like drumsticks, banana and papaya trees
- Inundation/localized flooding in low lying areas due to heavy rains
- Localised landslides/ mudslides/ mud slips/ mud sink possibility due to heavy rain
- Traffic may be disrupted due to poor visibility in association with heavy rain
- Vulnerable structures like hoardings, tents and display boards may be damaged

**(viii) Action suggested for West Bengal**

- Total suspension of fishing operations.
- People to remain in safe places.

**(ix) Action suggested for Tripura, Mizoram, East Meghalaya, Manipur and South Assam**

- People are advised to be cautious while going outside
- Regulate traffic
- People should not move nearby to vulnerable structures

**(viii) Advisory for On-shore and Off-shore Installations**

Regulation of offshore activities from 23rd over central and North Bay of Bengal till 25th and over Andaman Sea till 23rd. Suspension of off-shore activities during 24th to 25th October along and off Odisha and West Bengal coasts.

**The system is under continuous surveillance and the next message will be issued at 1730 hours IST of today, the 23<sup>rd</sup> October, 2022.**

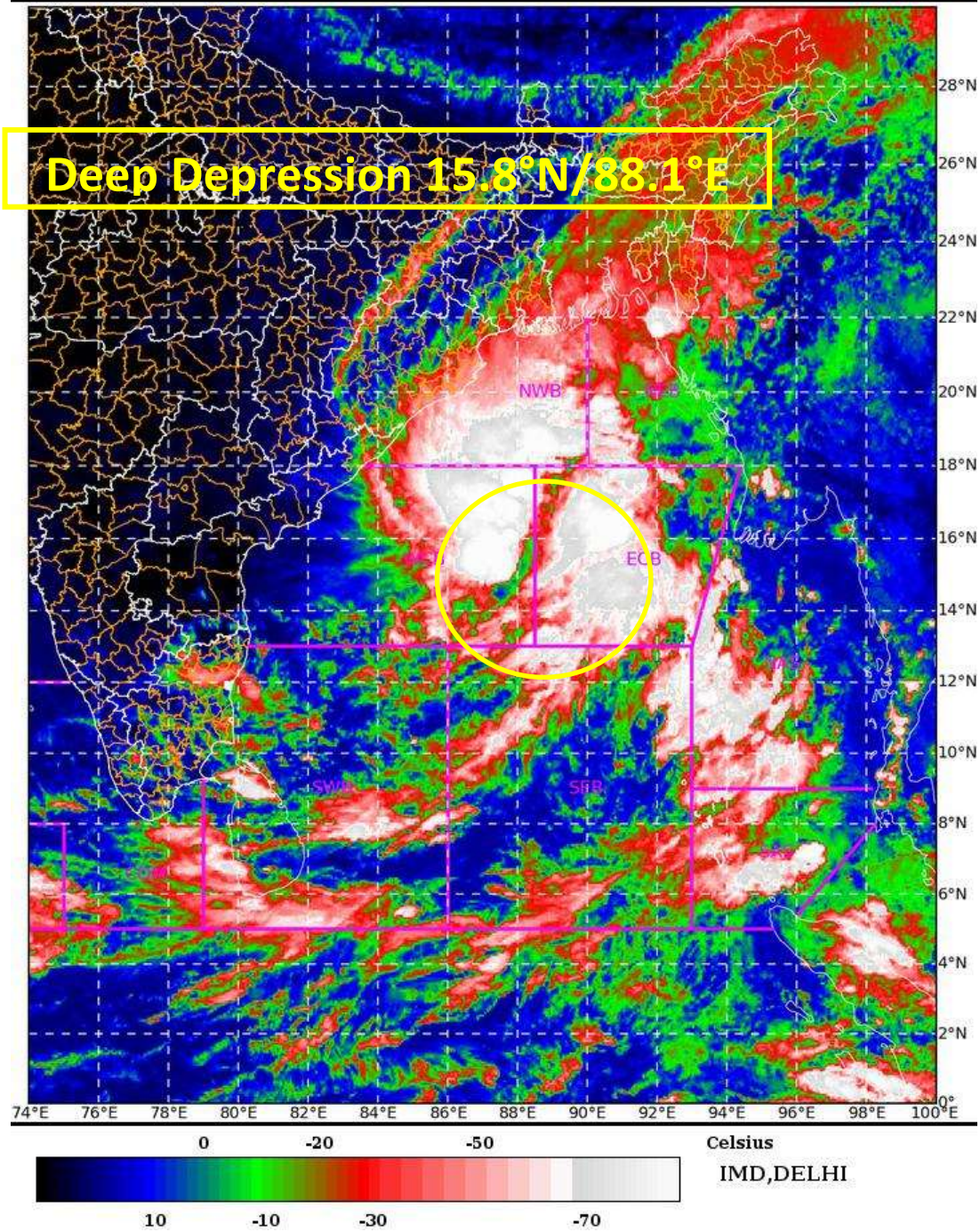
**(AKHIL SRIVASTAVA)**  
**Scientist- C, Cyclone Warning Division, New Delhi**

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

**LEGEND: Heavy Rainfall:** 64.5 to 115.5mm, **Very Heavy Rainfall:** 115.6 to 204.4mm **Most Places:** more than 76% of total stations, **Isolated Places:** Less than 25% of total



SAT : INSAT-3D IMG      23-10-2022/(0730 to 0756) GMT  
IMG\_TIR1\_TEMP 10.8 um    23-10-2022/(1300 to 1326) IST  
L1C Mercator







**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER WESTCENTRAL AND ADJOINING EASTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 23<sup>rd</sup> 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

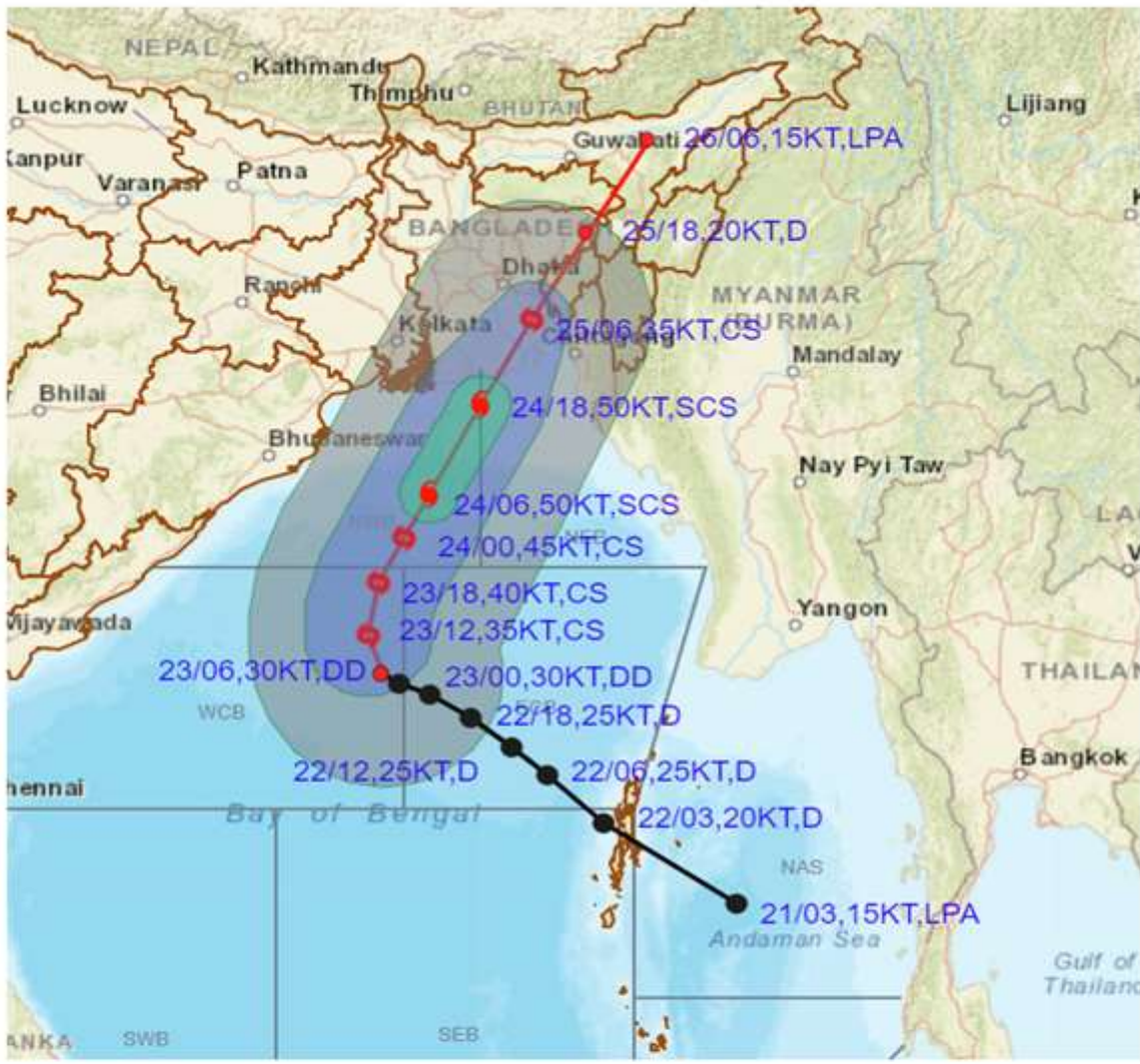
— FORECAST TRACK

▲ CONE OF UNCERTAINTY





**OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER WESTCENTRAL AND ADJOINING EASTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 23<sup>rd</sup> 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 (≥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

Today  
23/10/2022



Tomorrow  
24/10/2022



25/10/2022



26/10/2022



27/10/2022



 Heavy Rain	 Heavy Snow	 Thunderstorm	 Dust Storm
 Strong Winds	 Visibility	 Cyclone	 Squall/ Hail
 Frost	 Cold Wave	 Heat Wave	 Sea State



## Fishermen warning graphics

**Day 1: 23.10.2022/11:30AM to 24.10.2022/05:30AM**



**Day 2: 24.10.2022/05:30AM to 25.10.2022/05:30AM**



**Day 3: 25.10.2022/05:30AM to 26.10.2022/05:30AM**



**Day 4: 26.10.2022/05:30AM to 27.10.2022/05:30AM**

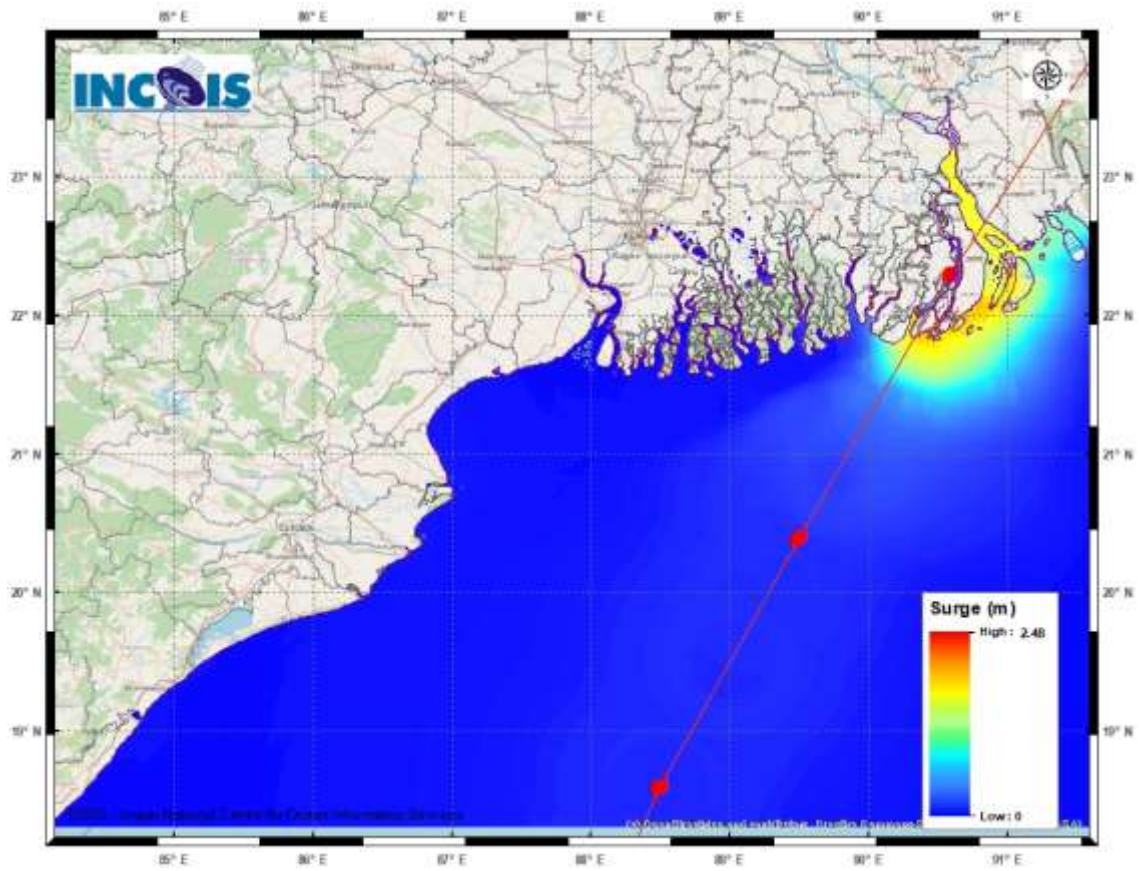


**Day 5: 27.10.2022/05:30AM to 28.10.2022/05:30AM**



	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 speed with wind speed 45-55 kmph gusting to 65 kmph
	Squally wind speed with wind speed 55-65 kmph gusting to 75 kmph
	Gale wind speed with wind speed 65-75 kmph gusting to 85 kmph
	Gale wind speed with wind speed 80-90 kmph gusting to 100 kmph
	Gale wind speed with wind speed 90-100 kmph gusting to 110 kmph

**Fishermen are advised not to venture into the marked areas.**



**Storm Surge Warning Graphics based on forecast of 0530 hours IST**