



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

BULLETIN NO. 18 (BOB/07/2022)

TIME OF ISSUE: 0230HOURS IST

DATED: 25.10.2022

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

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Subject: Cyclonic Storm "SITRANG" (pronounced as "Si-Trang") crossed Bangladesh coast between Tinkona and Sandwip close to Barisal

The cyclonic storm "**SITRANG**" pronounced as "**Si-Trang**" over north Bay of Bengal moved rapidly north-northeastwards with a speed of 56 kmph during past 06 hours and crossed Bangladesh coast between Tinkona and Sandwip close to Barisal during 2130 hrs IST and 2330 hrs IST of 24th October with maximum sustained wind speed of 80-90 kmph gusting to 100 kmph. It lay centered at 2330 hrs IST of 24th October over coastal Bangladesh near latitude 23.7°N and longitude 90.8°E, about 40 km east of Dhaka, 50 km west-southwest of Agartala and 120 km north-northeast of Barisal (Bangladesh).

It is very likely to continue to move north-northeastwards and weaken into a depression during next 6 hours and further into a well marked low pressure area during subsequent 6 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
24.10.22/2330	23.7/90.8	65-75 gusting to 85	Cyclonic Storm
25.10.22/0530	25.1/91.4	50-60 gusting to 70	Depression
25.10.22/1130	26.5/92.2	25-35 gusting to 45	Well Marked Low Pressure Area

Warnings:

(i) Rainfall (warning graphics enclosed)

Northeastern States:

Light to moderate rainfall at most places with isolated **heavy to very heavy rainfall** is likely over Arunachal Pradesh, Assam, Meghalaya, Mizoram, & Tripura on 25th October.

(ii) Wind warning:

Gale wind speed reaching 65-75 kmph gusting to 85 kmph is prevailing over north Bay of Bengal and along and off Bangladesh coast. It would gradually decrease becoming 40-50 kmph gusting to 60 kmph by forenoon of 25th October.

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely along & off West Bengal coast during next 6 hours. It would decrease gradually thereafter becoming 30-40 kmph gusting to 50 kmph by forenoon of 25th October.

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely over Mizoram & Tripura during next 6 hours. It would decrease gradually becoming wind speed reaching 40-50 kmph gusting to 60 kmph over the same region and over south Assam and adjoining east Meghalaya & Manipur during early morning to noon of 25th October and decrease gradually thereafter.

(iii) Sea condition

High Sea conditions are prevailing over North Bay of Bengal and along and off Bangladesh coast. It would improve gradually becoming rough to very rough from early morning till noon of 25th October. **Rough to very rough** Sea conditions likely to prevail along & off West Bengal coast during next 06 hours and improve gradually thereafter.

(iv) Storm Surge Warning (warning graphics enclosed)

Tidal wave of about 1.0 m height above astronomical tide is likely to inundate low lying areas of Bangladesh coast during next 03 hours and gradually decrease thereafter.

(v) Fishermen Warning (warning graphics enclosed)

Fishermen are advised not to venture into north Bay of Bengal, along and off West Bengal & Bangladesh coasts till noon of 25th October, 2022

(vi) Damage expected over Tripura, Mizoram, 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
- Localized 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

(vii) Action suggested for Tripura, Mizoram, 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/Suspension of off-shore activities over North Bay of Bengal and along & off West Bengal coasts till 25th October morning.

The system is under continuous surveillance and the next message will be issued at 0530 hours IST of today, the 25th October, 2022.

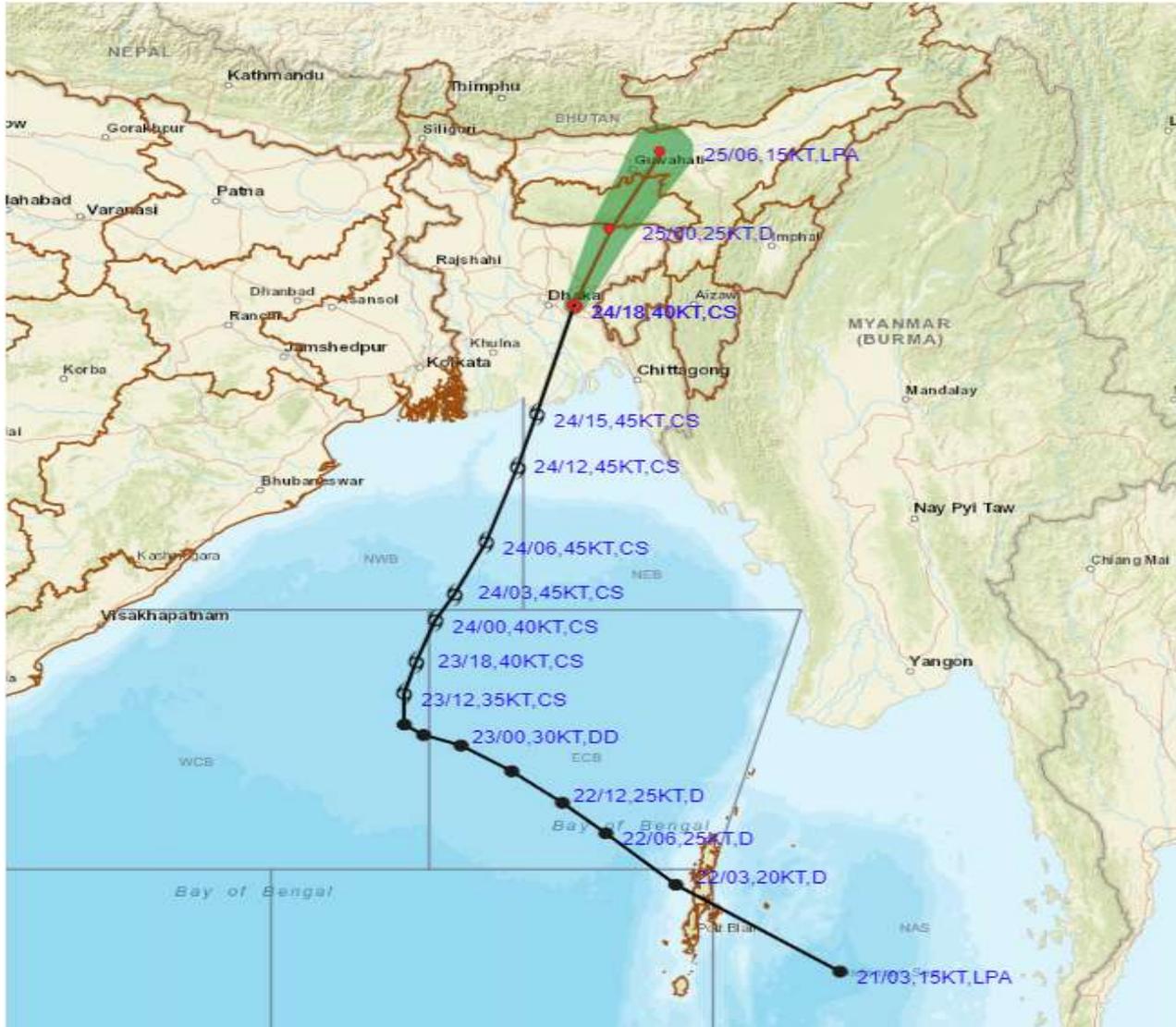
(A. K Das)
Scientist- E, Cyclone Warning Division, New Delhi

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



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM SITRANG OVER COASTAL BANGLADESHL BASED ON 1800 UTC 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 (≥ 20 KT)

● LESS THAN 34 KT

○ 34-47 KT

⊙ ≥ 48 KT

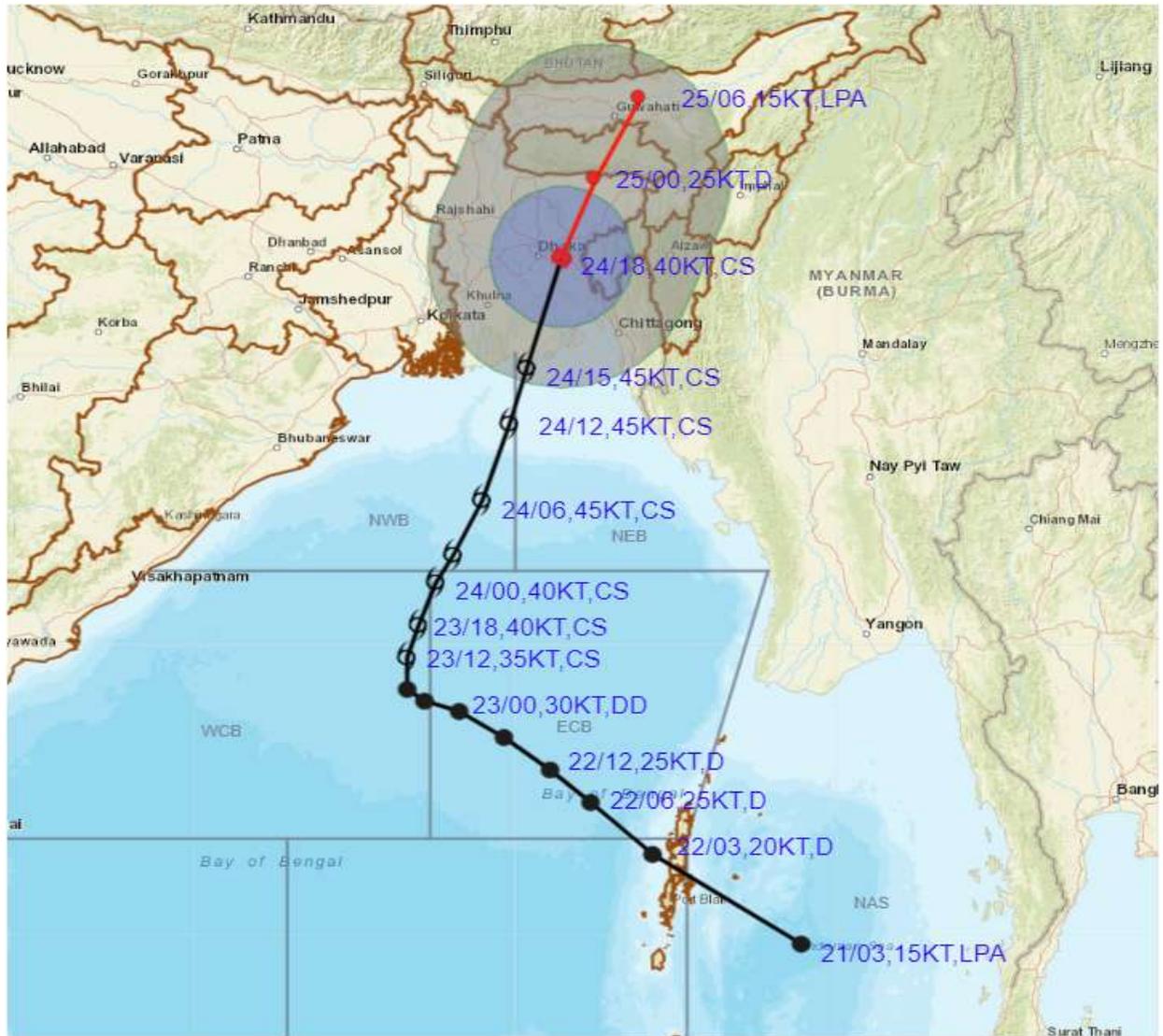
— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM SITRANG OVER COASTAL BANGLADESH BASED ON 1800 UTC 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 (≥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

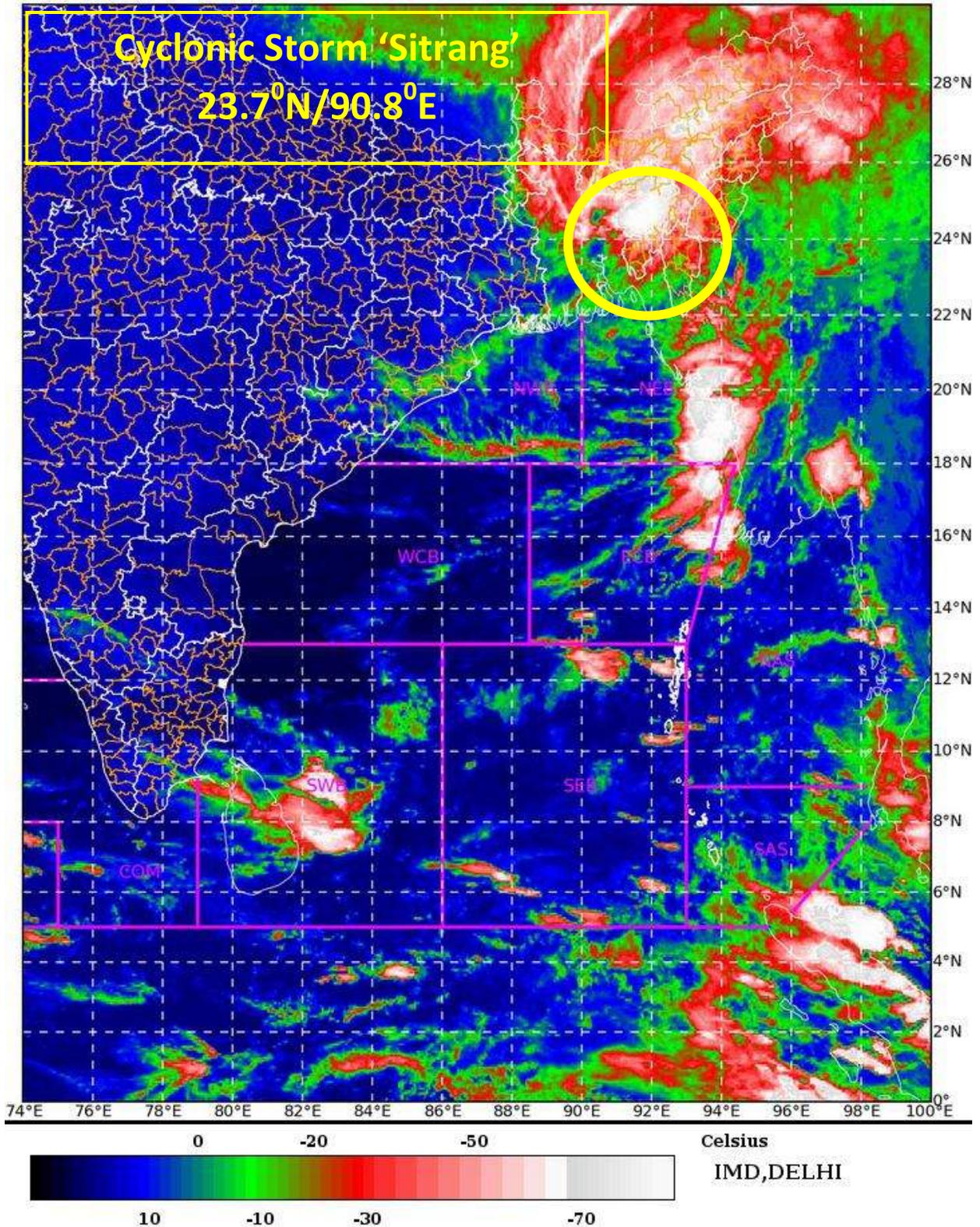
SAT : INSAT-3D IMG

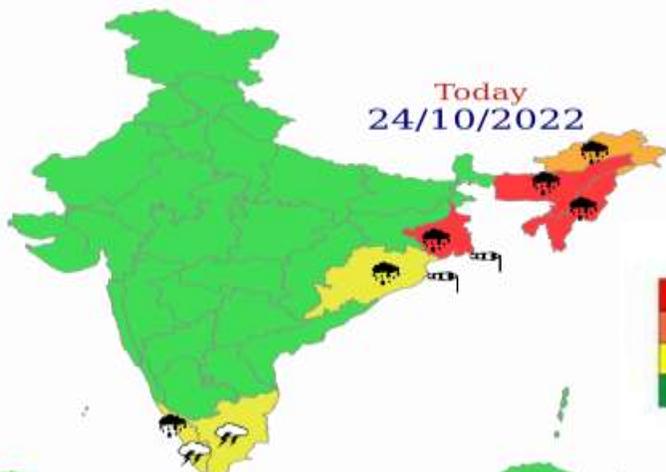
24-10-2022/(2000 to 2026) GMT

IMG_TIR1_TEMP 10.8 um

25-10-2022/(0130 to 0156) IST

L1C Mercator





WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)



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: 24.10.2022/11:30AM to 25.10.2022/05:30AM



Day 2: 25.10.2022/05:30AM to 26.10.2022/05:30AM



Day 3: 26.10.2022/05:30AM to 27.10.2022/05:30AM



Day 4: 27.10.2022/05:30AM to 28.10.2022/05:30AM

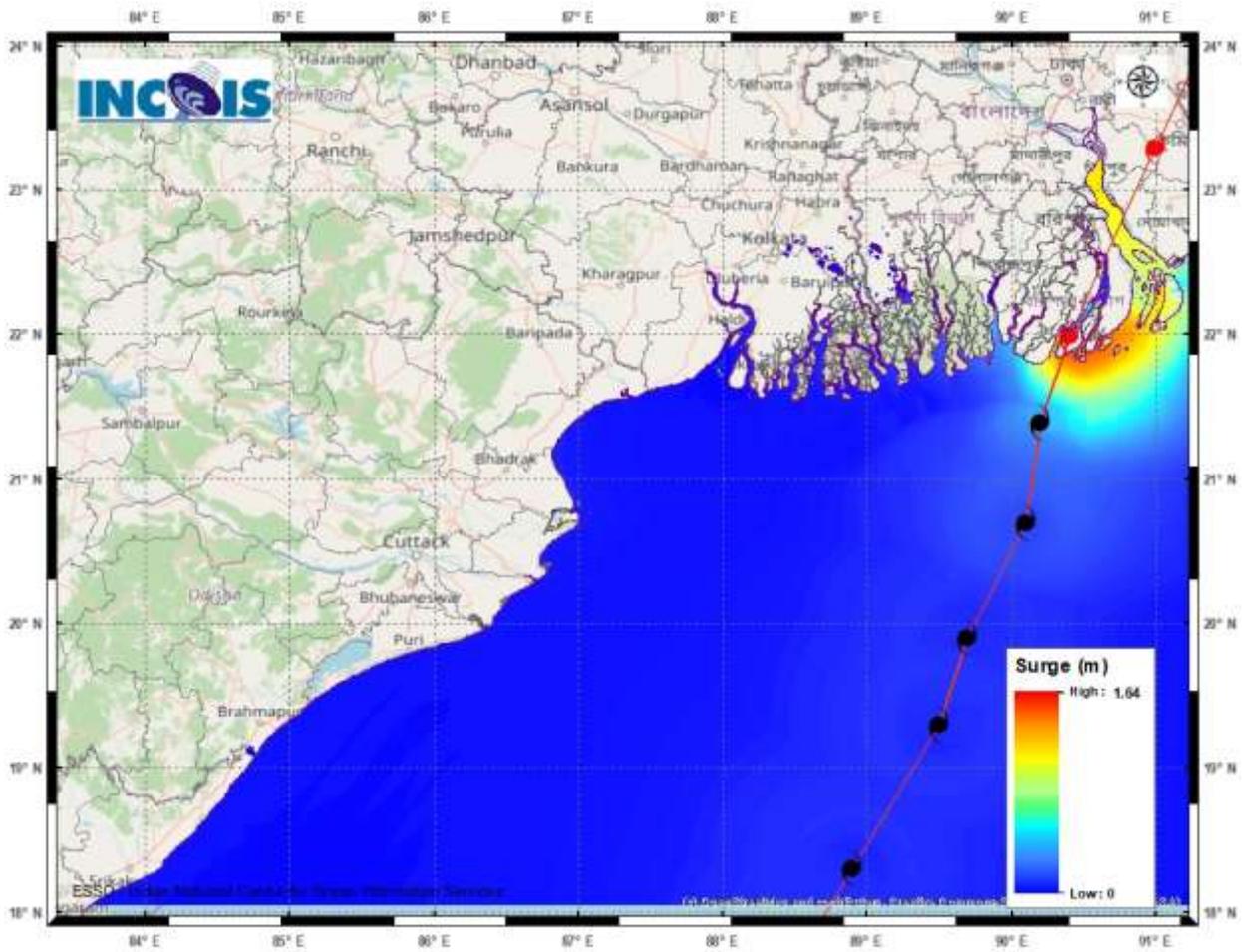


Day 5: 28.10.2022/05:30AM to 29.10.2022/05:30AM



	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