



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

SPECIAL BULLETIN NO. 2

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

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Subject: Low Pressure Area over North Andaman Sea and adjoining areas & it's likely intensification into a Cyclonic Storm

Yesterday's Low Pressure Area over north Andaman Sea and adjoining areas of south Andaman Sea & Southeast Bay of Bengal persisted over the same region in the morning of today, the 21st October, 2022.

It is very likely to move west-northwestwards and concentrate into a Depression over southeast & adjoining eastcentral Bay of Bengal on 22nd October and then moving northwestwards intensify further into a Deep Depression over eastcentral and adjoining southeast bay of Bengal on 23rd October. Subsequently, it is very likely to recurve gradually northwards and intensify into a cyclonic storm over westcentral and adjoining eastcentral Bay of Bengal by 24th October. Thereafter, it is likely to move north-northeastwards and reach near West Bengal - Bangladesh coasts on 25th October, skirting Odisha coast.

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
22.10.22/0530	12.0/91.5	40-50 gusting to 65	Depression
22.10.22/1730	13.0/90.0	45-55 gusting to 65	Depression
23.10.22/0530	14.2/88.4	50-60 gusting to 70	Deep Depression
23.10.22/1730	15.2/87.5	55-65 gusting to 75	Deep Depression
24.10.22/0530	16.2/87.2	65-75 gusting to 85	Cyclonic Storm
24.10.22/1730	17.2/87.5	70-80 gusting to 100	Cyclonic Storm
25.10.22/0530	18.9/88.3	80-90 gusting to 100	Cyclonic Storm
25.10.22/1730	20.8/89.2	90-100 gusting to 110	Severe Cyclonic Storm
26.10.22/0530	22.5/90.0	85-95 gusting to 105	Severe Cyclonic Storm

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 during on 21st to 23rd October.

Odisha: Light to moderate rainfall at most places likely over coastal districts of Odisha on 23rd and light to moderate rainfall with isolated heavy rainfall likely over the same region on 24th and isolated heavy to very heavy rainfall over north coastal Odisha districts on 25th October

West Bengal: Light to moderate rainfall at most places likely over coastal districts of West Bengal on 23rd. light to moderate rainfall with isolated heavy to very heavy rainfall likely over the same region on 24th and heavy to very heavy rainfall at a few places of coastal districts on 25th and isolated heavy rainfall over 24 Parganas and Nadia districts on 26th October.

NE states:

Light to moderate rainfall at most places with heavy rainfall at isolated places over south Assam, East Meghalaya, Nagaland, Mizoram, Manipur & Tripura on 24th October. Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places likely over the same region on 25th and 26th October

(ii) Wind warning:

21st October: Squally weather with wind speed reaching 40-45 kmph gusting to 55 kmph is very likely over southeast Bay of Bengal & adjoining eastcentral & Andaman Sea and Andaman & Nicobar Islands

22nd October: Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over eastcentral & adjoining southeast Bay of Bengal, Andaman Islands and Andaman Sea.

23rd October: Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely over westcentral and adjoining eastcentral & southeast Bay of Bengal. Squally wind speed reaching 35-45 kmph gusting to 55 kmph is very likely along & off Odisha and West Bengal coasts.

24th October: Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely over westcentral and adjoining areas of eastcentral & north Bay of Bengal. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely along & off Odisha and West Bengal coasts.

25th October: Gale wind speed reaching 90-100 kmph gusting to 110 kmph is likely over north and adjoining central Bay of Bengal and along & off West Bengal and Bangladesh coasts and squally wind speed reaching 50-60 kmph gusting to 70 kmph likely along and off Odisha coast.

26th October: Gale wind speed reaching 90-100 kmph gusting to 110 kmph is likely over north Bay of Bengal and along & off West Bengal and Bangladesh coasts till morning and gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph from afternoon

(iii) Sea condition

21st October: Rough over southeast Bay of Bengal & adjoining eastcentral & North Andaman Sea

22nd October: Rough to very rough over central & adjoining southeast Bay of Bengal.

23rd October: Very rough over westcentral and adjoining eastcentral & southeast Bay of Bengal.

24th October: High over westcentral and adjoining eastcentral & north Bay of Bengal.

25th October: High over north and adjoining central Bay of Bengal.

26th October: High to very rough over north Bay of Bengal till noon and very rough to rough thereafter.

(iv) Fishermen Warning (warning graphics enclosed)

Fishermen are advised not to venture into southeast & adjoining eastcentral Bay of Bengal & North Andaman Sea on 21st, into central & adjoining areas of southeast Bay of Bengal and north Andaman Sea on 22nd, central Bay of Bengal on 23rd, central & adjoining north Bay of Bengal on 24th, north & adjoining central Bay of Bengal on 25th and into north Bay of Bengal on 26th October, 2022.

Fishermen are advised not to venture into Sea along and off Odisha, West Bengal & Bangladesh coasts during 23rd to 26th October.

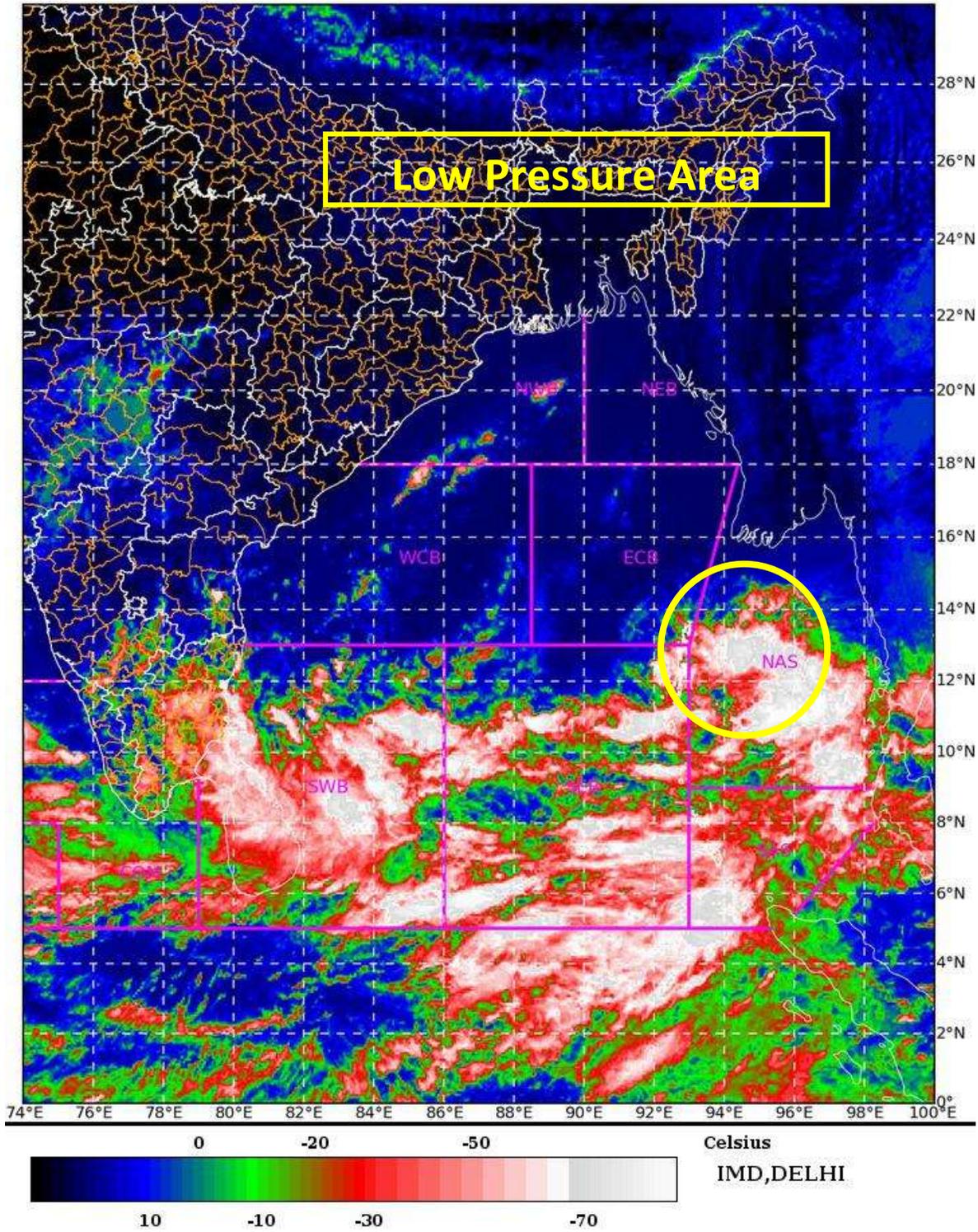
The system is under continuous surveillance and the next message will be issued at 1130 hours IST of tomorrow, the 22nd October, 2022.

**(Ananda Kumar Das)
Scientist E, Cyclone Warning, New Delhi**

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

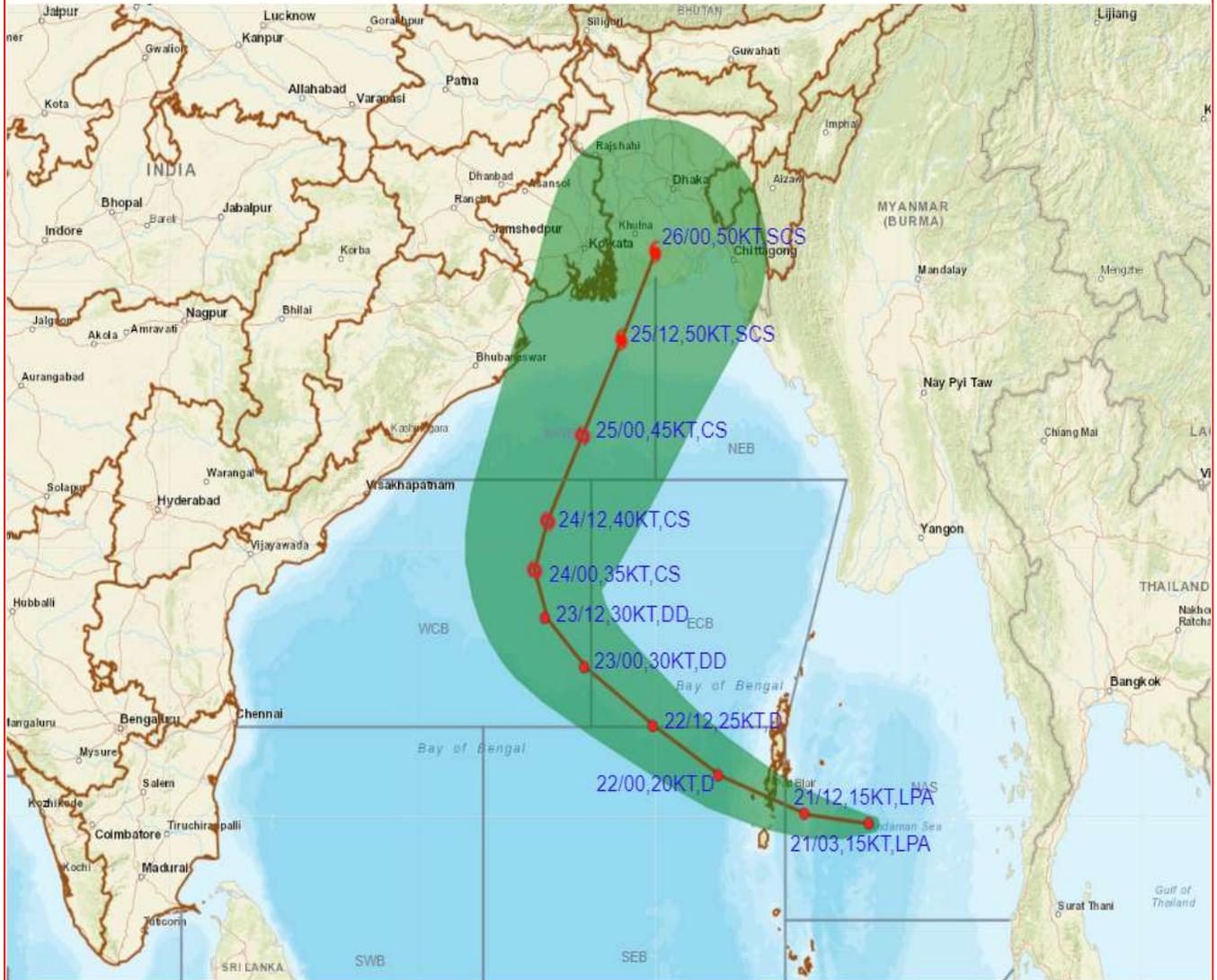
LEGEND: Heavy Rainfall: 64.5 to 115.5mm, **Very Heavy Rainfall:** 115.6 to 204.4mm **Most Places:** more than 76% of total stations, **Isolated Places:** Less than 25% of total

SAT : INSAT-3D IMG 21-10-2022/(0630 to 0656) GMT
IMG_TIR1_TEMP 10.8 um 21-10-2022/(1200 to 1226) IST
L1C Mercator





**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF
LOW PRESSURE SYSTEM OVER NORTH ANDAMAN SEA BASED ON 0300 UTC OF
21ST 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

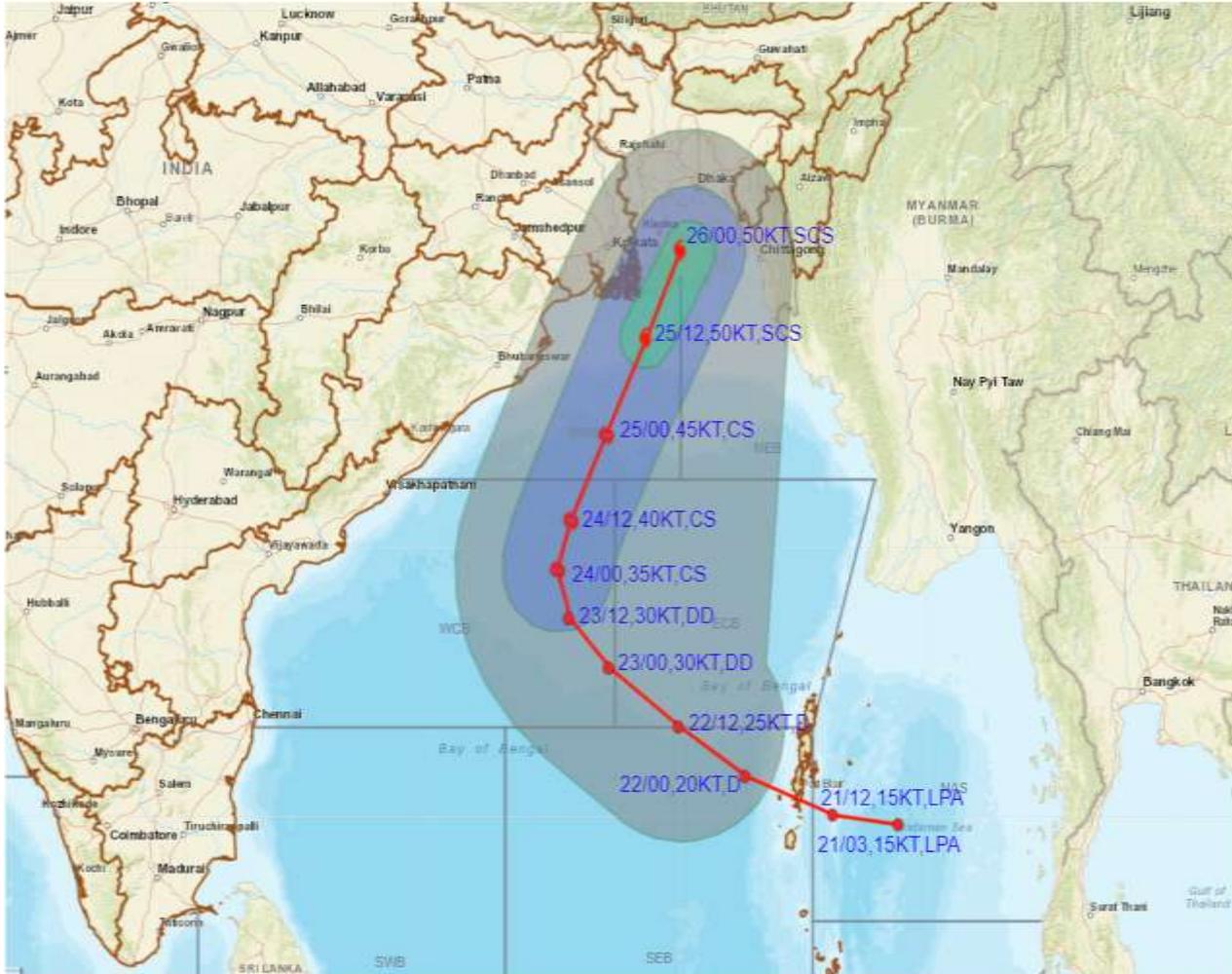
OBSERVED TRACK

FORECAST TRACK

CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF LOW PRESSURE SYSTEM OVER NORTH ANDAMAN SEA BASED ON 0300 UTC OF 21ST 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 (≥ 120 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
21/10/2022



WARNING



Tomorrow
22/10/2022



23/10/2022



24/10/2022



25/10/2022



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

Fishermen warning graphics



	Squally WX with wind speed 40-45 kmph gusting to 55 kmph
	Squally wind speed with wind speed 45-55 kmph gusting to 65 kmph
	Squally wind speed with wind speed 50-60 kmph gusting to 70 kmph
	Gale wind speed with wind speed 60-70 kmph gusting to 80 kmph
	Gale wind speed with wind speed 70-80 kmph gusting to 90 kmph
	Gale wind speed with wind speed 90-100 kmph gusting to 110 kmph

Fishermen are advised not to venture into the marked areas.