



India Meteorological Department
(Ministry of Earth Sciences)

BULLETIN NO.9 (BOB/02/2022)

TIME OF ISSUE: 2100 HOURS IST

DATED: 21.03.2022

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

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Sub: Deep Depression over north Andaman Sea and adjoining areas of southeast and eastcentral Bay of Bengal: Pre cyclone watch for Andaman Islands and adjoining sea areas **(Yellow Message)**

The Deep Depression over north Andaman Sea and adjoining southeast Bay of Bengal, moved nearly northwards with a speed of 13 kmph during last 06 hours, and lay centered at 1730 hours IST of today, 21st March, over north Andaman Sea and adjoining areas of southeast and eastcentral Bay of Bengal, near latitude 13.3 Degree North and longitude 94.0 Degree East, about 120 km east-northeast of Mayabundar (Andaman Islands), 230 km north-northeast of Port Blair (Andaman Islands), 450 km south-southwest of Yangon (Myanmar) and 570 km south-southwest of Thandwe (Myanmar).

It is likely to intensify further into a cyclonic storm during next 12 hours. It would continue to move nearly northwards away from Andaman Islands and cross Myanmar coast between latitude 18 Degree North & 19 Degree North around Thandwe (Myanmar) during early hours of 23rd March.

Forecast track and intensity are given in the following table:

Date/Time (IST)	Position (Lat. °N/ Long. °E)	Maximum Sustained Surface Wind speed (kmph)	Category of Cyclonic Disturbance
21.03.22/1730	13.3/94.0	55-65 gusting to 75	Deep Depression
21.03.22/2330	14.2/94.0	55-65 gusting to 75	Deep Depression
22.03.22/0530	15.1/93.9	65-75 gusting to 85	Cyclonic Storm
22.03.22/1130	15.9/93.9	65-75 gusting to 85	Cyclonic Storm
22.03.22/1730	16.7/93.9	55-65 gusting to 75	Deep Depression
23.03.22/0530	18.5/94.3	45-55 gusting to 65	Depression

Warnings:

(i) Rainfall (warning graphics enclosed)

21st March: Light to moderate rainfall/thundershower at most places with **heavy to very heavy rainfall at isolated places** is very likely over north Andaman Islands and **heavy rainfall at isolated places** over South Andaman Islands **during next 06 hours**. Light to moderate rainfall at a few places is likely over Nicobar Islands.

(ii) Wind warning

- **21st March:** Squally winds speed reaching 55-65 kmph gusting to 75 kmph prevails over Andaman and Nicobar Islands, eastcentral Bay of Bengal and adjoining southeast Bay of Bengal.
- **22nd March:** Gale winds speed reaching 65-75 kmph gusting to 85 kmph very likely to prevail over eastcentral Bay of Bengal and adjoining north Andaman Sea & along & off Myanmar coast. It is likely to weaken gradually becoming squally winds speed reaching 55-65 kmph gusting to 75 kmph over the same region from 22nd evening. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over north Andaman Islands and adjoining southeast Bay of Bengal, northeast Bay of Bengal and along & off southeast Bangladesh coast.
- **23rd March:** Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over eastcentral Bay of Bengal, adjoining northeast Bay of Bengal and along & off north Myanmar - southeast Bangladesh coasts till evening.

(iii) Sea condition

- **21st March:** Sea condition is very rough prevailing over north Andaman Sea and adjoining southeast & eastcentral Bay of Bengal.
- **22nd March:** Sea condition is very likely to become very rough to high over eastcentral Bay of Bengal and north Andaman Sea and along & off Myanmar coast. It would be rough to very rough over adjoining southeast & northeast Bay of Bengal and along & off southeast Bangladesh coast during the same period.
- **23rd March:** Sea condition is very likely to be rough to very rough over eastcentral Bay of Bengal, North Andaman Sea and adjoining northeast Bay of Bengal & along & off north Myanmar- southeast Bangladesh coasts till evening.

(iv) Fishermen Warning (Graphics enclosed)

Fishermen are advised not to venture

- Into southeast Bay of Bengal on 21st March.
- Into Andaman Sea and along & off Andaman and Nicobar Islands during 21st to 22nd March.
- Into eastcentral Bay of Bengal during 21st to 23rd March and into northeast Bay of Bengal on 22nd and 23rd March.

(v) **EXPECTED IMPACT & ACTION SUGGESTED for Andaman and Nicobar Islands**

A. Impact Expected

- Breaking of tree branches and uprooting of small trees.
- Partial disruption of power and communication lines.
- Localized Flooding of roads, inundation and water logging in low lying areas.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic due to water logging in roads leading to increased travel time.

- Adverse impact on marine and tourist activities along the coasts.
- Damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to squally wind and inundation.

B. Action Suggested

- Total suspension of fishing and tourism activities during 21st to 22nd March.
- Avoid going to areas that face the water logging problems often.
- People are advised to be in safe areas and avoid staying in vulnerable structure.
- Regulate and suspend off-shore activities during 21st to 22nd March.
- Regulate air-traffic on 21st March, 2022.
- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.

Next bulletin will be issued at 0230 hours IST of 23rd March, 2022.

(Ananda Kumar Das)
Scientist-E, RSMC, New Delhi

Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswarr/CWC Vishakhapatnam/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

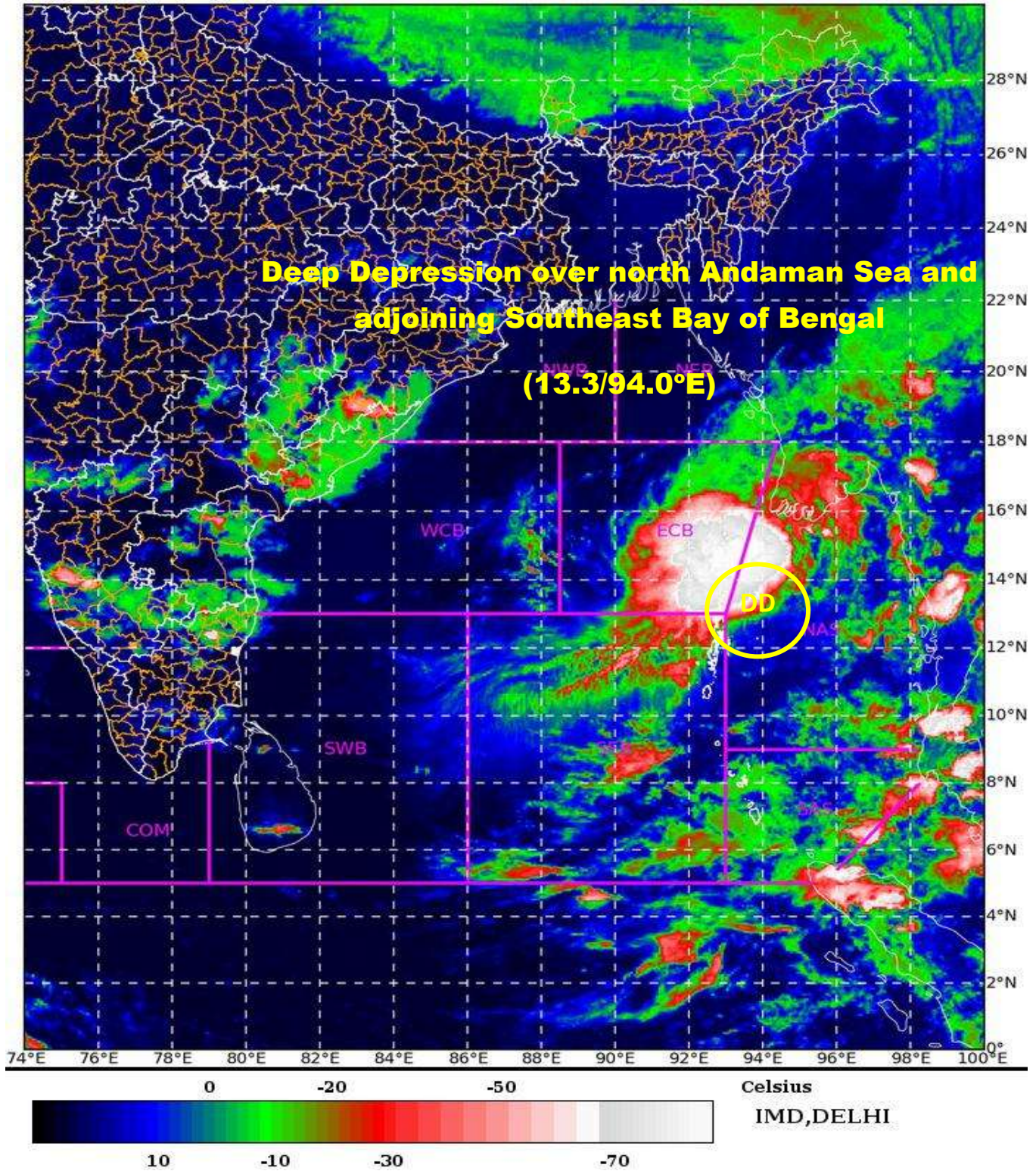
21-03-2022/(1400 to 1426) GMT

IMG_TIR1_TEMP 10.8 um

21-03-2022/(1930 to 1956) IST

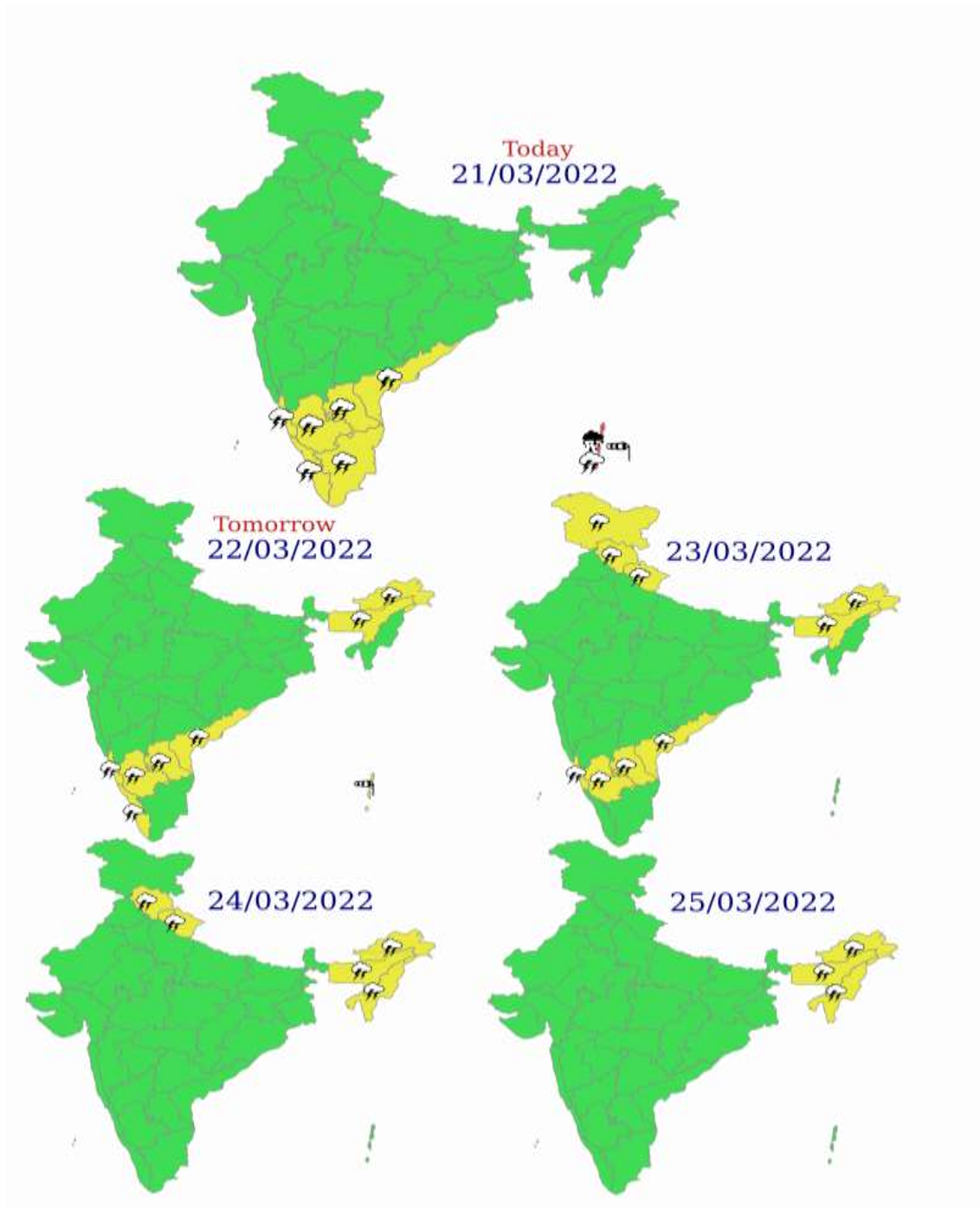


L1C Mercator



DD: DEEP DEPRESSION

Rainfall Warning Graphics



WARNING

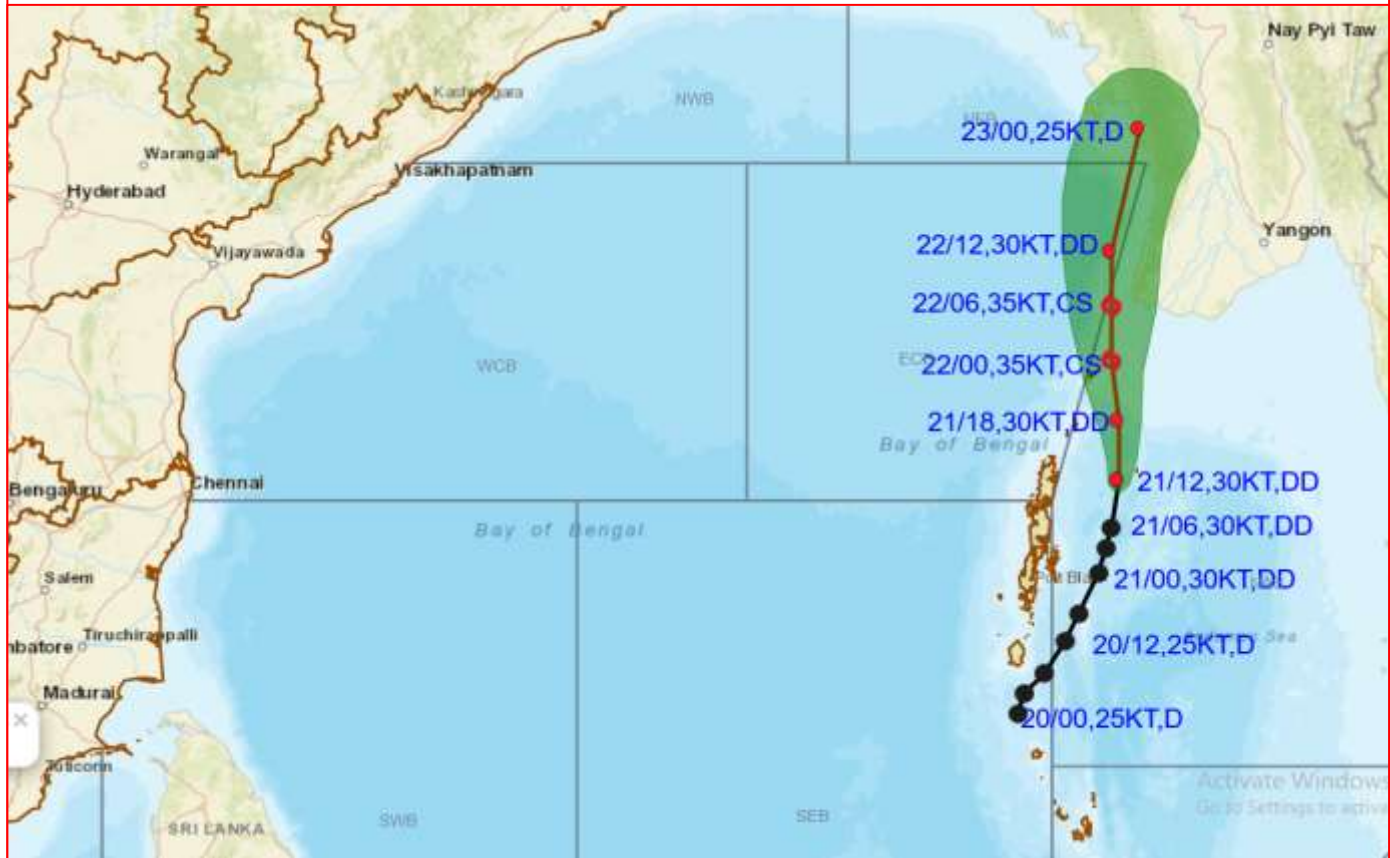
WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

 Heavy Rain

 Strong Winds



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER NORTH ANDAMAN SEA AND ADJOINING AREAS OF SOUTHEAST & EASTCENTRAL BAY OF BENGAL BASED ON 1200 UTC OF 21st MARCH 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)

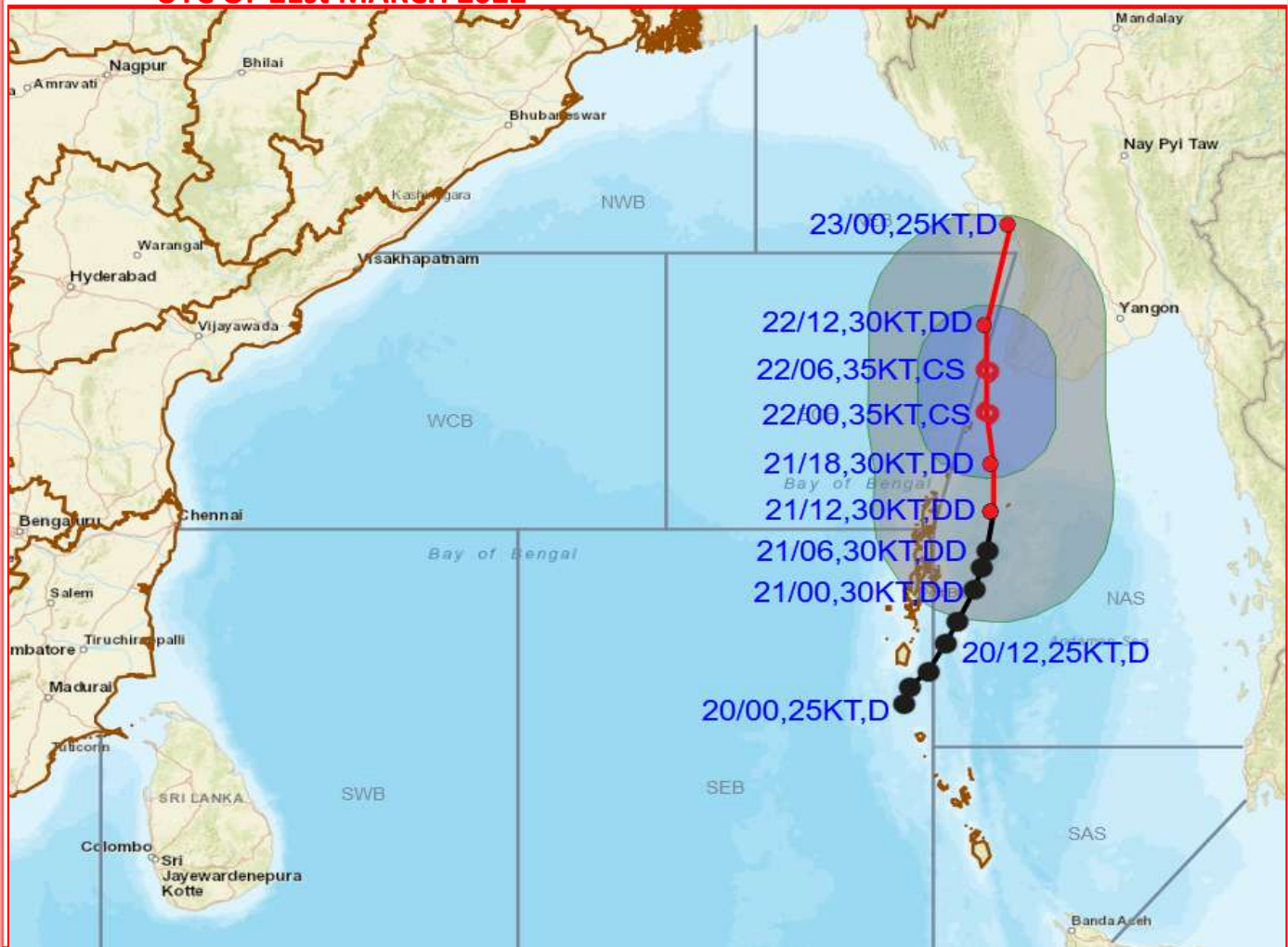
● LESS THAN 34 KT
 ○ 34-47 KT
 ⊙ \geq 48 KT
 — OBSERVED TRACK
 — FORECAST TRACK
 ▲ CONE OF UNCERTAINTY

STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS		
	21.03.22/1200	22.03.22/0000	22.03.22/1200
Yangon	450,SSW	310,SW	240,W
Carnicobar	480,NNE	670,N	850,N
Hut bay	340,NNE	520,NNE	700,NNE
Portblair	230,NE	400,NNE	570,NNE
Mayabundar	120,ENE	270,NNE	430,NNE

N:NORTH, NNE:NORTH-NORTHEAST, NE:NORTHEAST, ENE:EAST-NORTHEAST, E:EAST, SE:SOUTHEAST, SSE:SOUTH-SOUTHEAST, S:SOUTH, SSW:SOUTH-SOUTHWEST, SW:SOUTHWEST, WSW:WEST-SOUTHWEST, W:WEST, WNW:WEST-NORTHWEST, NW:NORTHWEST, NNW:NORTH-NORTHWEST



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER NORTH ANDAMAN SEA AND ADJOINING SOUTHEAST & EASTCENTRAL BAY OF BENGAL BASED ON 1200 UTC OF 21st MARCH 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

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)

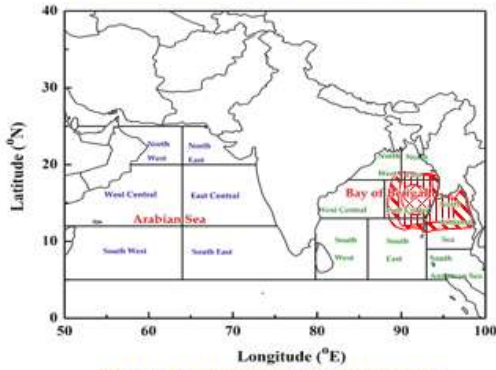
IMPACT OVER THE SEA

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

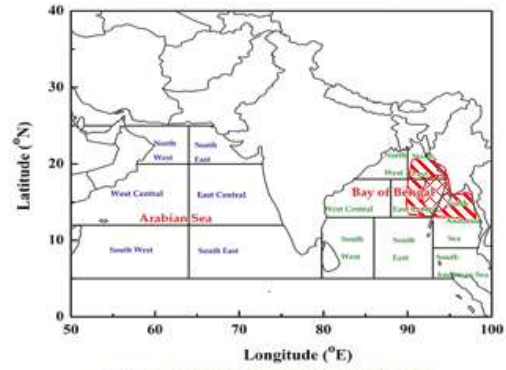
Fishermen warning Graphics

INDIA METEOROLOGICAL DEPARTMENT FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA

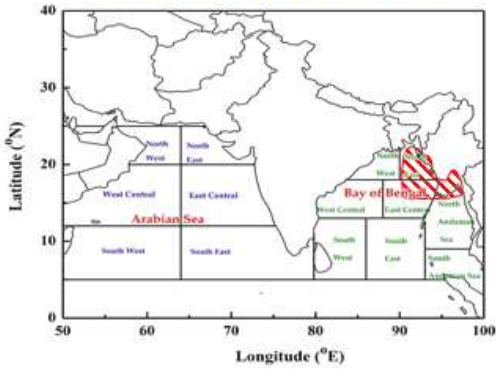
DAY-1: 21.03.2022/0600 UTC TO 22.03.2022/0600 UTC



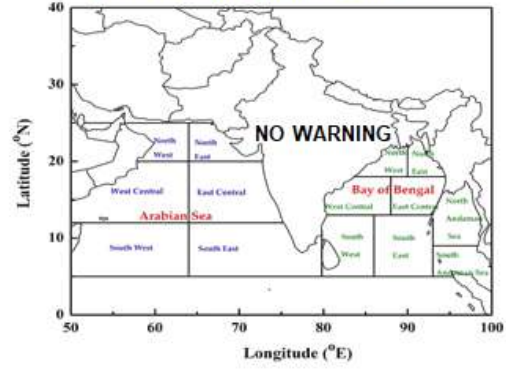
DAY-2: 22.03.2022/0600 UTC TO 23.03.2022/0600 UTC



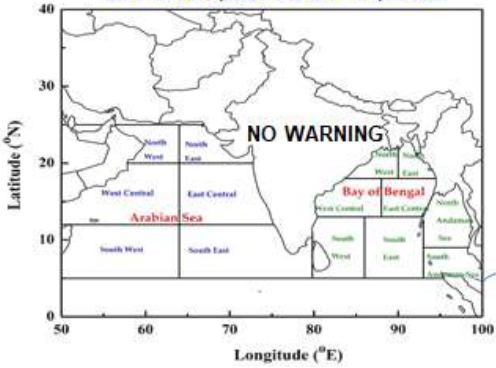
DAY-3: 23.03.2022/0600 UTC TO 24.03.2022/0600 UTC







DAY-4: 24.03.2022/0600 UTC TO 25.03.2022/0600 UTC



DAY-5: 25.03.2022/0600 UTC TO 26.03.2022/0600 UTC



AREA UNDER FISHERMEN WARNING

-  40-50 KMPH GUSTING TO 55 KMPH (SQUALLY WEATHER)
-  45-55 KMPH GUSTING TO 65 KMPH
-  55-65 KMPH GUSTING TO 70 KMPH
-  65-75 KMPH GUSTING TO 85 KMPH

Storm Surge Guidance from INCOIS (1715 IST)

