



India Meteorological Department  
(Ministry of Earth Sciences)

BULLETIN NO.6 (BOB/02/2022)

TIME OF ISSUE: 0845 HOURS IST

DATED: 21.03.2022

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Sub: Depression over north Andaman Sea and adjoining southeast Bay of Bengal intensified into a deep depression over the same region: Pre cyclone watch for Andaman Islands and adjoining sea areas **(Yellow Message)**

The Depression over north Andaman Sea and adjoining southeast Bay of Bengal, moved north-northeastwards at a speed of 12 kmph during last 06 hours, intensified into a deep depression and lay centered at 0530 hours IST of today, 21<sup>st</sup> March, over the same region, near latitude 11.9°N and longitude 93.7°E, about 110 km east-northeast of Port Blair (Andaman Islands), 320 km north-northeast of Car Nicobar (Nicobar Islands) and 610 km south-southwest of Yangon (Myanmar). It is likely to intensify further into a cyclonic storm during next 12 hrs. It is likely to move nearly northwards along & off Andaman Islands towards Myanmar coast during next 48 hrs.

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
21.03.22/0530	11.9/93.7	50-60 gusting to 70	Deep Depression
21.03.22/1730	13.7/93.9	65-75 gusting to 85	Cyclonic Storm
22.03.22/0530	15.1/93.8	65-75 gusting to 85	Cyclonic Storm
22.03.22/1730	16.9/93.9	55-65 gusting to 75	Deep Depression
23.03.22/0530	18.4/94.1	45-55 gusting to 65	Depression

## Warnings:

### (i) Rainfall (warning graphics enclosed)

**21<sup>st</sup> March:** Light to moderate rainfall/thundershower at most places with **heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall** are very likely over north Andaman Islands. Light to moderate rainfall at a few places is likely over Nicobar Islands.

### (ii) Wind warning

- **21<sup>st</sup> March:** Squally winds speed reaching 50-60 kmph gusting to 70 kmph prevails over Andaman and Nicobar Islands, eastcentral Bay of Bengal and adjoining southeast Bay of Bengal in today morning. It would gradually increase becoming Gale winds speed reaching 65-75 kmph gusting to 85 kmph over the region from evening of today, 21<sup>st</sup> March.
- **22<sup>nd</sup> 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 22<sup>nd</sup> 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.
- **23<sup>rd</sup> 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.

### (iii) Sea condition

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

### (iv) Fishermen Warning (Graphics enclosed)

Fishermen are advised not to venture

- Into southeast Bay of Bengal on 21<sup>st</sup> March.
- Into Andaman Sea and along & off Andaman and Nicobar Islands during 21<sup>st</sup> to 22<sup>nd</sup> March.
- Into eastcentral Bay of Bengal during 21<sup>st</sup> to 23<sup>rd</sup> March and into northeast Bay of Bengal on 22<sup>nd</sup> and 23<sup>rd</sup> 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 21<sup>st</sup> to 22<sup>nd</sup> 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 21<sup>st</sup> to 22<sup>nd</sup> March.
- Regulate air-traffic on 21<sup>st</sup> March, 2022.
- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.

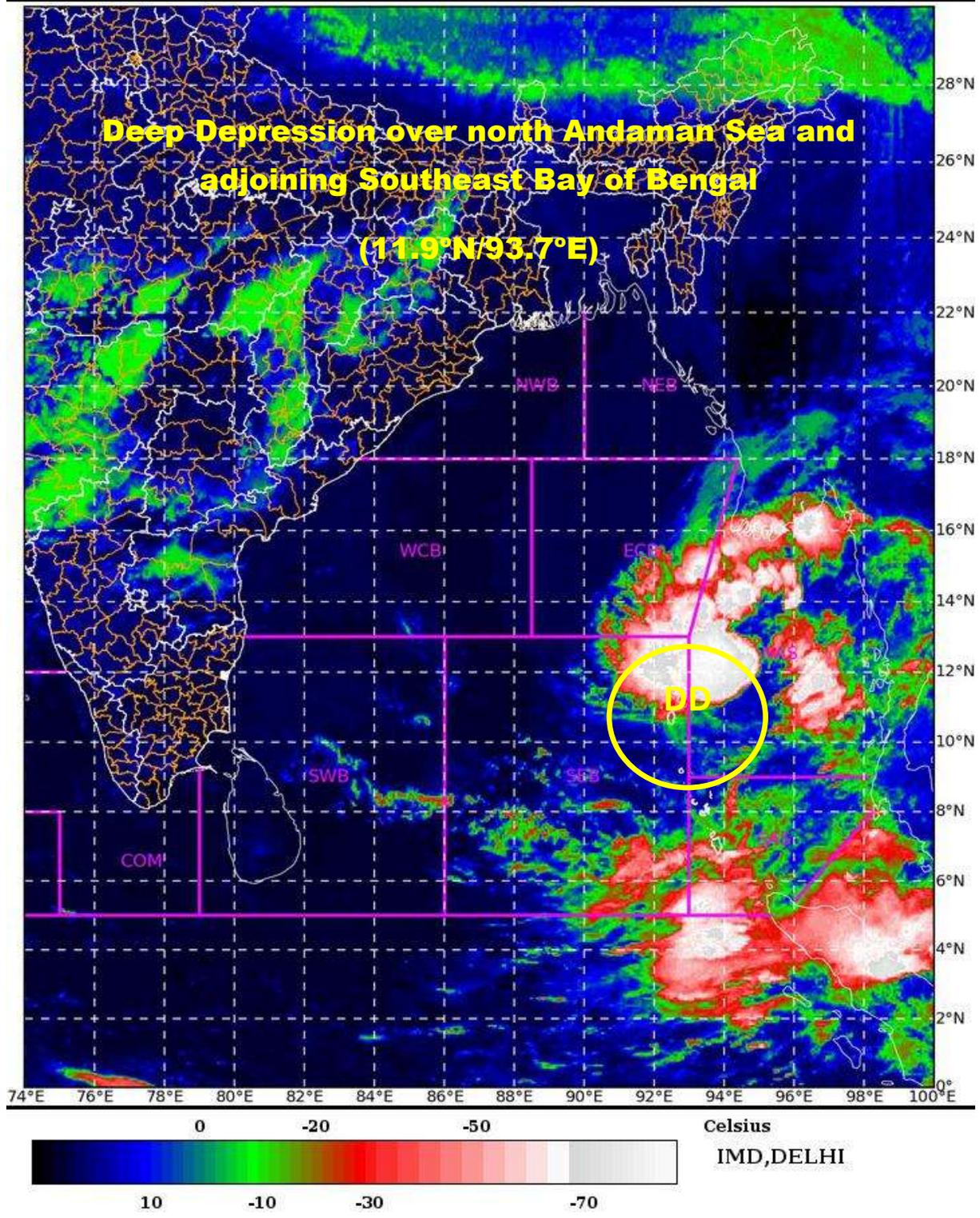
Next message will be issued at 1130 hours IST of today, the 21<sup>st</sup> March, 2022.

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

*Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswarr/CWC Vishakhapatnam/MO Port Blair*

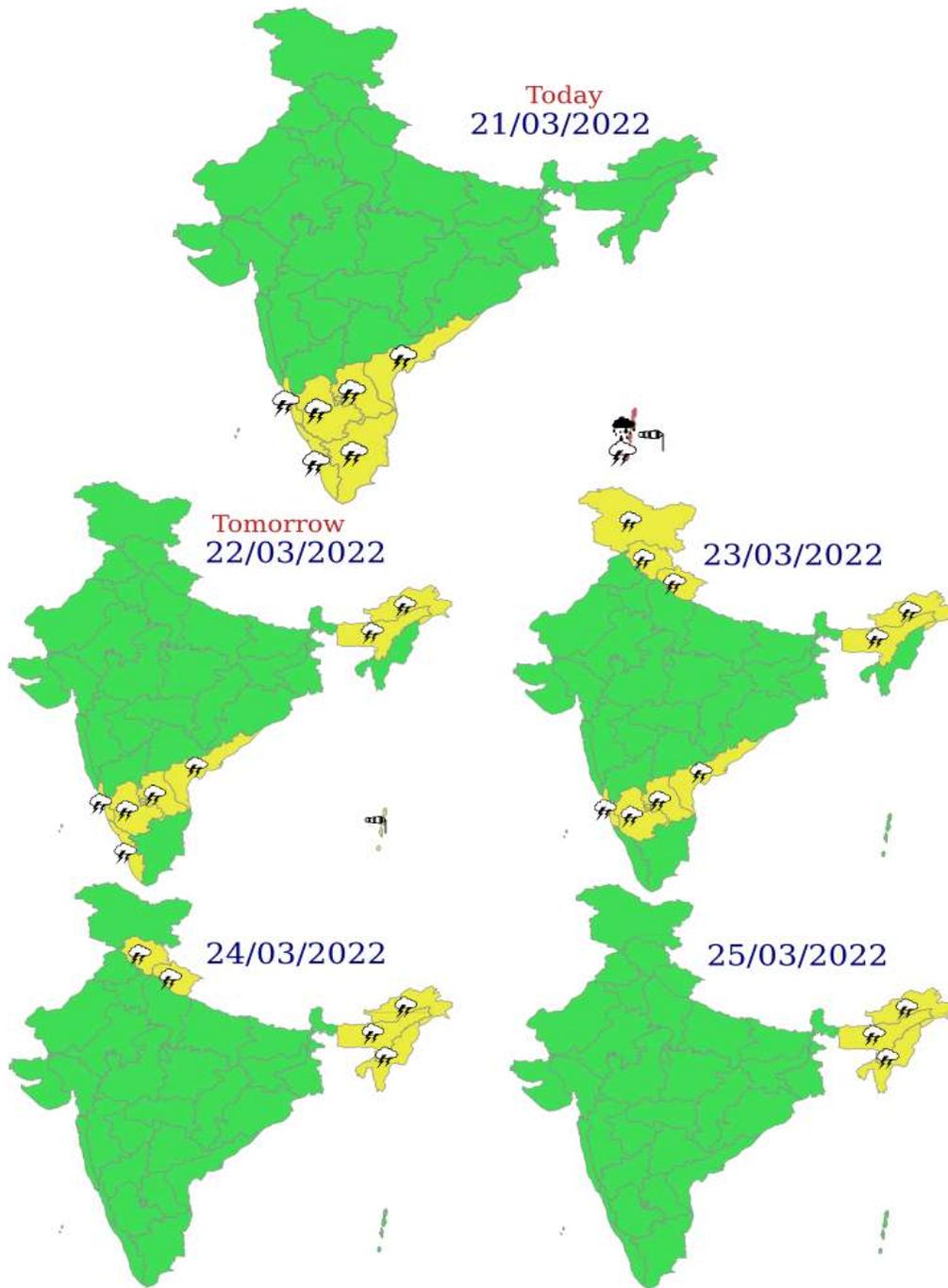
**LEGEND: Heavy Rainfall:** 64.5 to 115.5mm, **Very Heavy Rainfall:** 115.6 to 204.4mm **Most Places:** more than 76% of total stations, **Isolated Places:** Less than 25% of total

SAT : INSAT-3D IMG      21-03-2022/(0200 to 0227) GMT  
IMG\_TIR1\_TEMP 10.8 um    21-03-2022/(0730 to 0757) IST  
L1C Mercator



DD: Deep Depression

# Rainfall Warning Graphics



**WARNING**

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



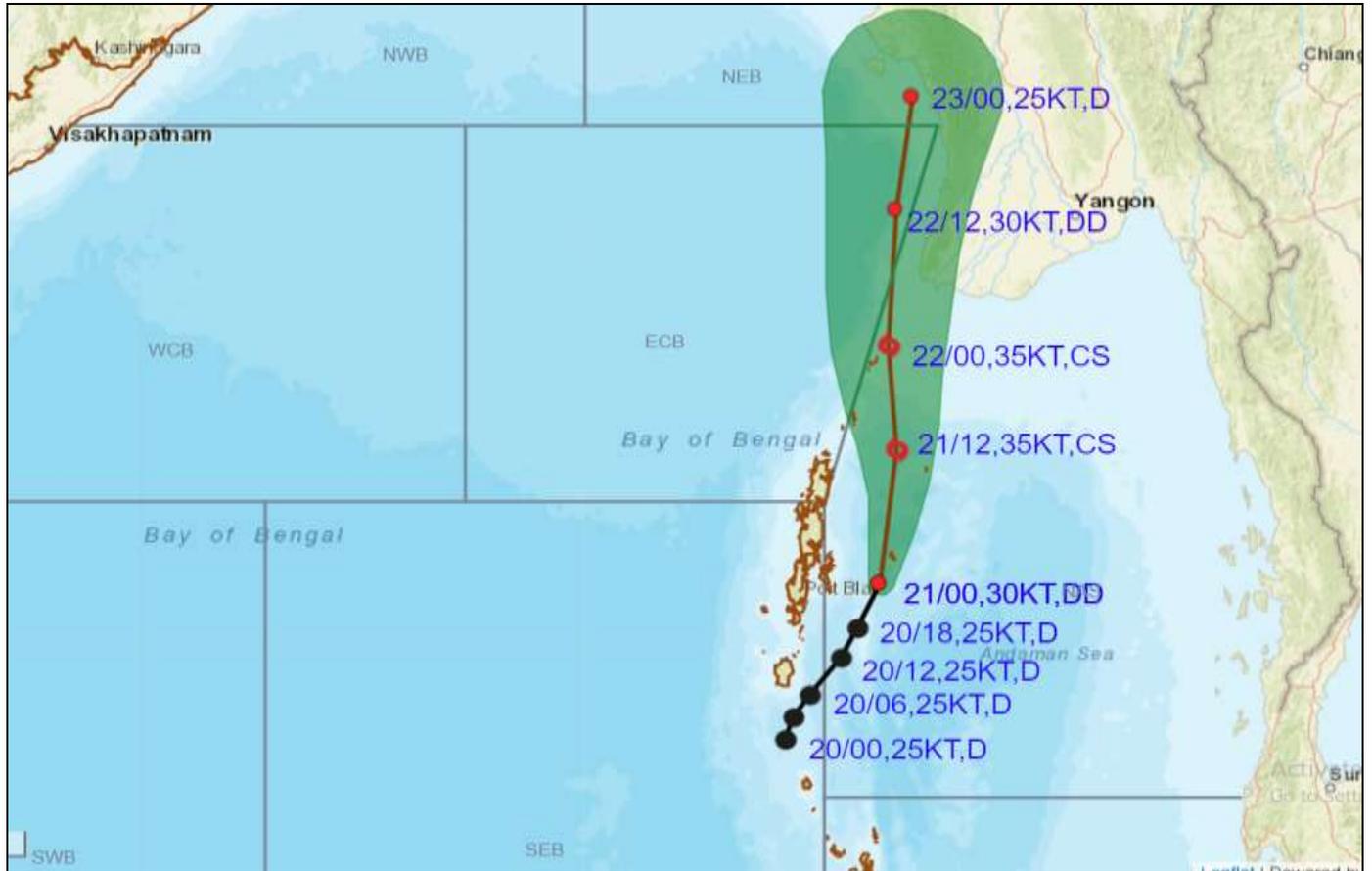
Heavy Rain



Strong Winds



**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER NORTH ANDAMAN SEA AND ADJOINING SOUTHEAST BAY OF BENGAL BASED ON 0000 UTC OF 21<sup>st</sup> 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

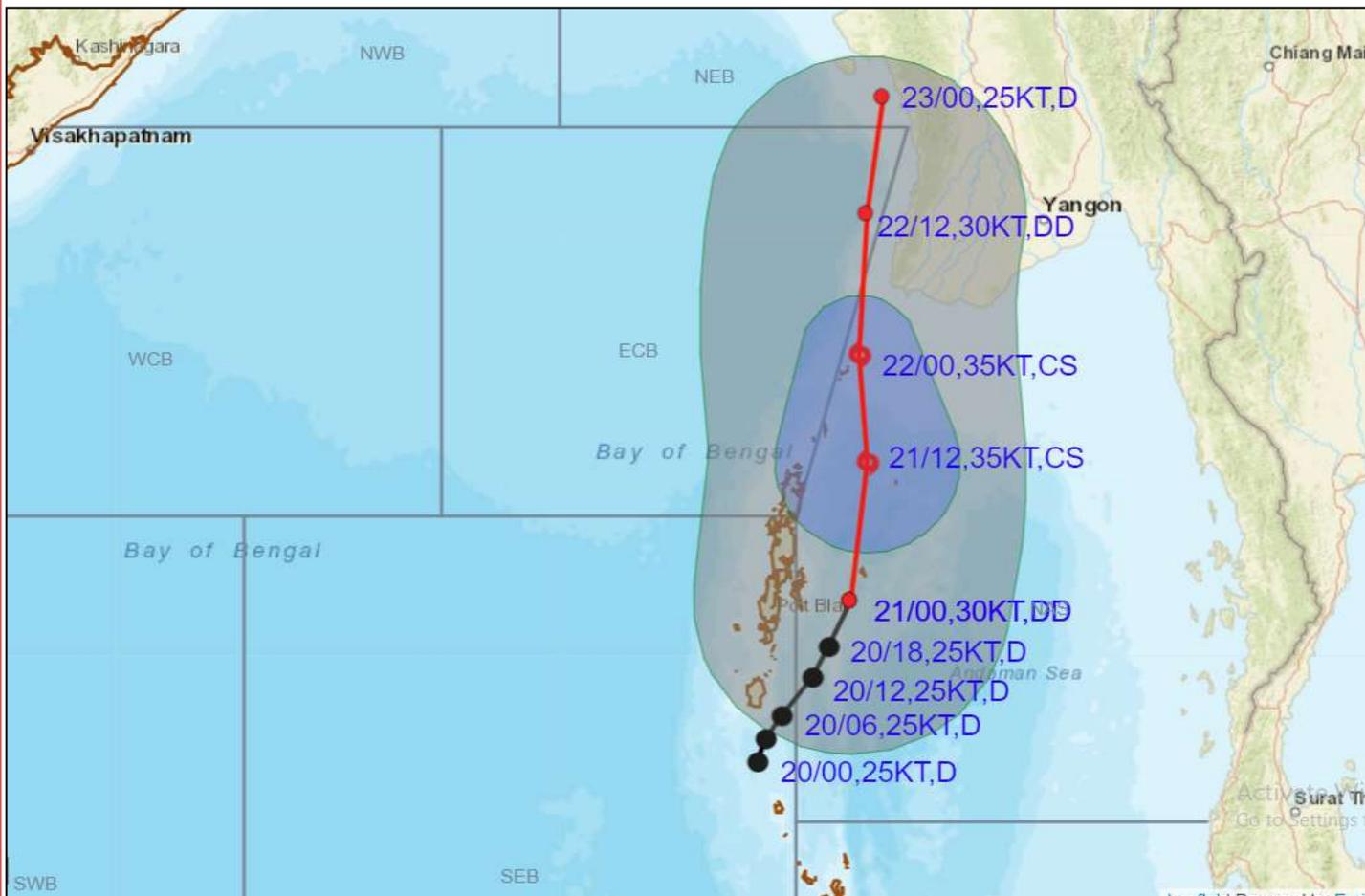
▲ CONE OF UNCERTAINTY

STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS		
	21.03.22/0000	22.03.22/0000	23.03.22/0000
Yangon	600,SSW	310,SW	280,NW
<u>Carnicobar</u>	320,NNE	670,N	1040,N
Hut bay	190,NE	520,NNE	890,N
<u>Portblair</u>	110,ENE	400,NNE	760,N
<u>Maya bundar</u>	140,SE	260,NNE	620,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 DEPRESSION OVER NORTH ANDAMAN SEA AND ADJOINING SOUTHEAST BAY OF BENGAL BASED ON 0000 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)

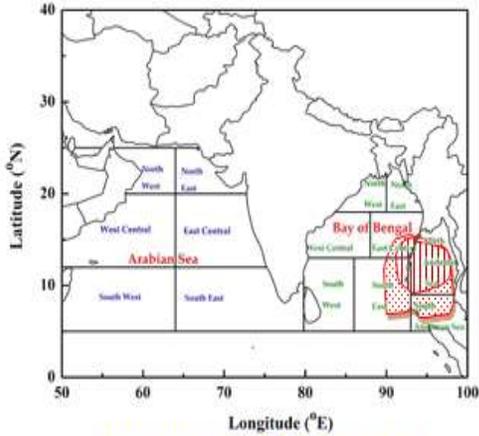
### IMPACT OVER THE SEA

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

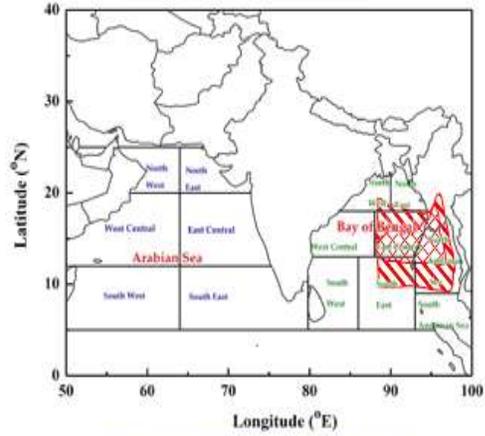
# Fishermen warning Graphics

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

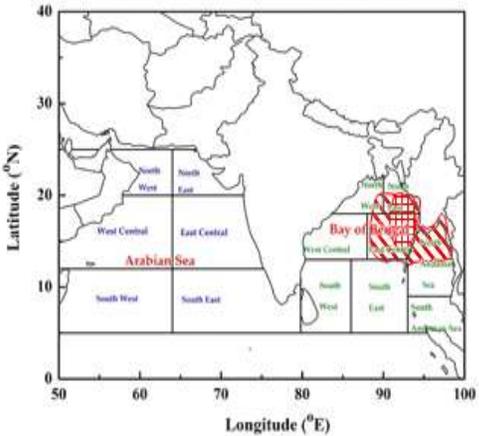
DAY-1: 20.03.2022/0600 UTC TO 21.03.2022/0600 UTC



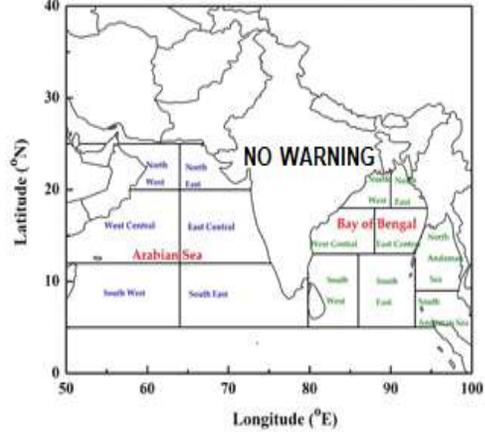
DAY-2: 21.03.2022/0600 UTC TO 22.03.2022/0600 UTC



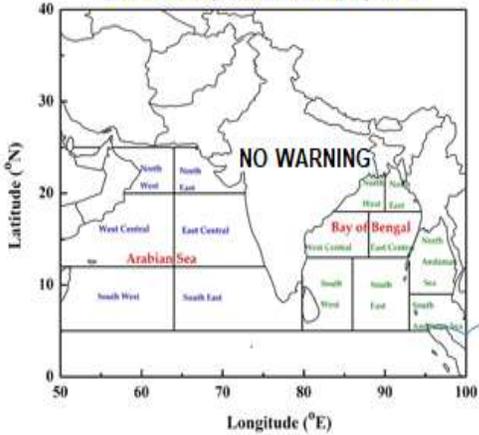
DAY-3: 22.03.2022/0600 UTC TO 23.03.2022/0600 UTC



DAY-4: 23.03.2022/0600 UTC TO 24.03.2022/0600 UTC



DAY-5: 24.03.2022/0600 UTC TO 25.03.2022/0600 UTC



### AREA UNDER FISHERMEN WARNING

-  40-50 KMPH GUSTING TO 55 KMPH (SQUALLY WEATHER)
-  45-55 KMPH GUSTING TO 65 KMPH
-  50-60 KMPH GUSTING TO 70 KMPH
-  60-70 KMPH GUSTING TO 80 KMPH
-  65-75 KMPH GUSTING TO 85 KMPH