



India Meteorological Department  
(Ministry of Earth Sciences)

BULLETIN NO.2 (BOB/02/2022)

TIME OF ISSUE:1140 HOURS IST

DATED: 20.03.2022

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

The Depression over southeast Bay of Bengal and adjoining south Andaman Sea, moved nearly northwards at a speed of 12 kmph and lay centered at 0830 hours IST of today, the 20<sup>th</sup> March, over the same region, near latitude 10.1°N and longitude 92.6°E, about 110 km north-northwest of Car Nicobar (Nicobar Islands), 170 km south of Port Blair (Andaman Islands) and 840 km south-southwest of Yangon (Myanmar). It is likely to move nearly northwards along & off Andaman & Nicobar Islands, intensify into a deep depression during next 24 hours and into a cyclonic storm during subsequent 12 hours.

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
20.03.22/0830	10.1/92.6	40-50 gusting to 60	Depression
20.03.22/1730	11.1/93.1	45-55 gusting to 65	Depression
21.03.22/0530	12.4/93.4	55-65 gusting to 75	Deep Depression
21.03.22/1730	13.8/93.5	65-75 gusting to 85	Cyclonic Storm
22.03.22/0530	15.4/93.6	60-70 gusting to 80	Cyclonic Storm
22.03.22/1730	17.0/93.8	55-65 gusting to 75	Deep Depression

## Warnings:

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

**20<sup>th</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 Andaman and Nicobar Islands.

**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

➤ **20<sup>th</sup> March:** Squally winds speed reaching 40-50 kmph gusting to 60 kmph are very likely to prevail over Andaman and Nicobar Islands, Andaman Sea and adjoining southeast Bay of Bengal which would gradually increase to 45-55 kmph gusting to 65 kmph from afternoon of 20<sup>th</sup> March.

➤ **21<sup>st</sup> March:** Squally winds speed reaching 55-65 kmph gusting to 75 kmph are very likely to prevail over Andaman and Nicobar Islands, eastcentral Bay of Bengal and adjoining southeast Bay of Bengal from 21<sup>st</sup> early morning. It would gradually increase becoming Gale winds speed reaching 65-75 kmph gusting to 85 kmph over the region from evening of 21<sup>st</sup> March.

➤ **22<sup>nd</sup> March:** Gale winds speed reaching 60-70 kmph gusting to 80 kmph very likely to prevail over eastcentral Bay of Bengal and along & off Myanmar coast and gradually reduce and 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, north Andaman Sea and adjoining southeast Bay of Bengal, northeast Bay of Bengal and along & off southeast Bangladesh coast.

### (iii) Sea condition

• Sea condition very likely to be rough to very rough over Andaman Sea and adjoining southeast Bay of Bengal on 20<sup>th</sup> March.

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

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

Fishermen are advised not to venture

• Into southeast Bay of Bengal during 20<sup>th</sup> – 21<sup>st</sup> March.

• Into Andaman Sea and along & off Andaman and Nicobar Islands during 20<sup>th</sup> to 22<sup>nd</sup> March.

• Into eastcentral Bay of Bengal during 21<sup>st</sup> to 22<sup>nd</sup> March and into northeast Bay of Bengal on 22<sup>nd</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 20<sup>th</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 20<sup>th</sup> to 22<sup>nd</sup> March.
- Regulate air-traffic on 20<sup>th</sup> and 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 1430 hours IST of today, the 20<sup>th</sup> March, 2022.

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

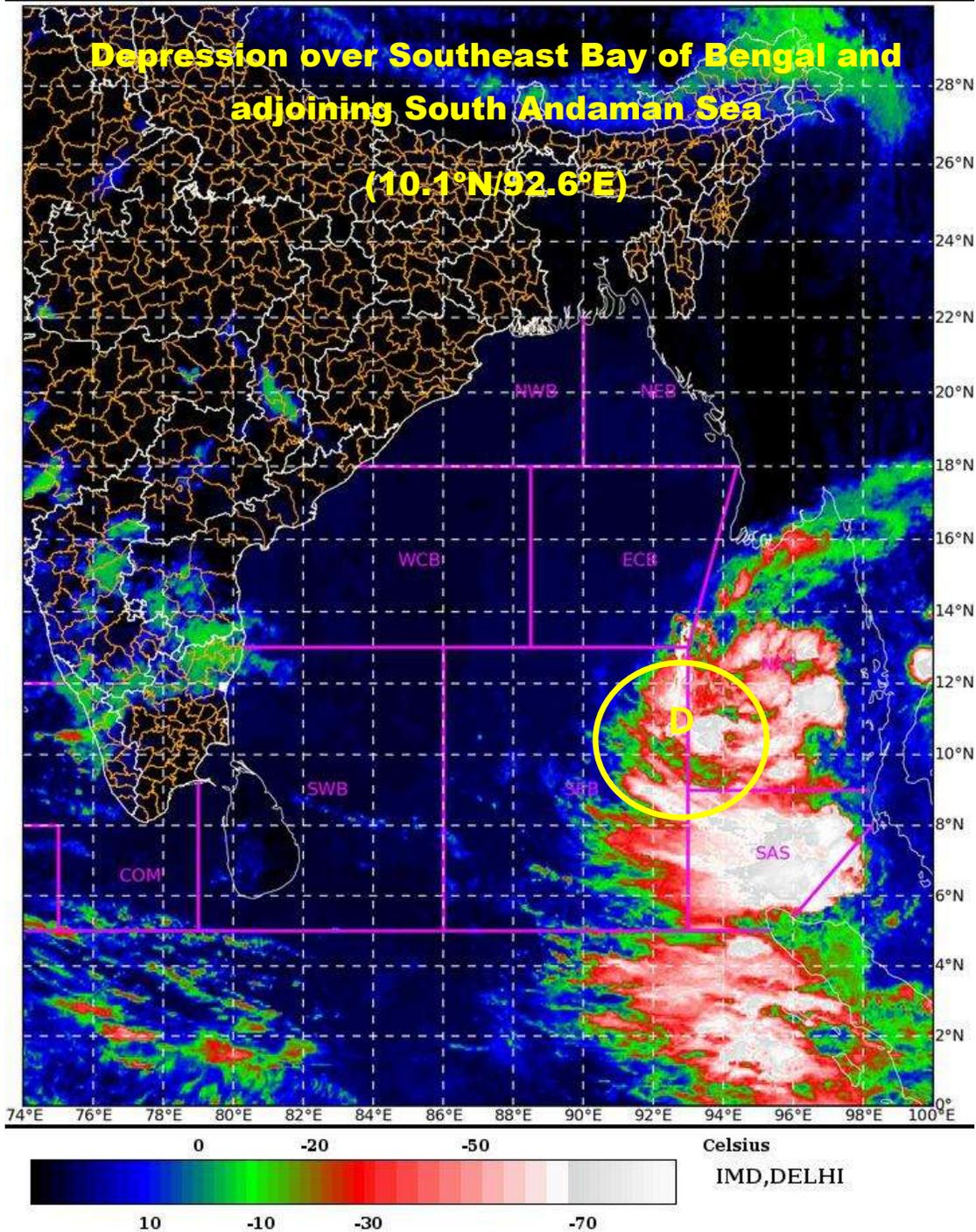
*Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswarr/CWC Vishakhapatnam/MO Port Blair*

**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 20-03-2022/(0430 to 0457) GMT

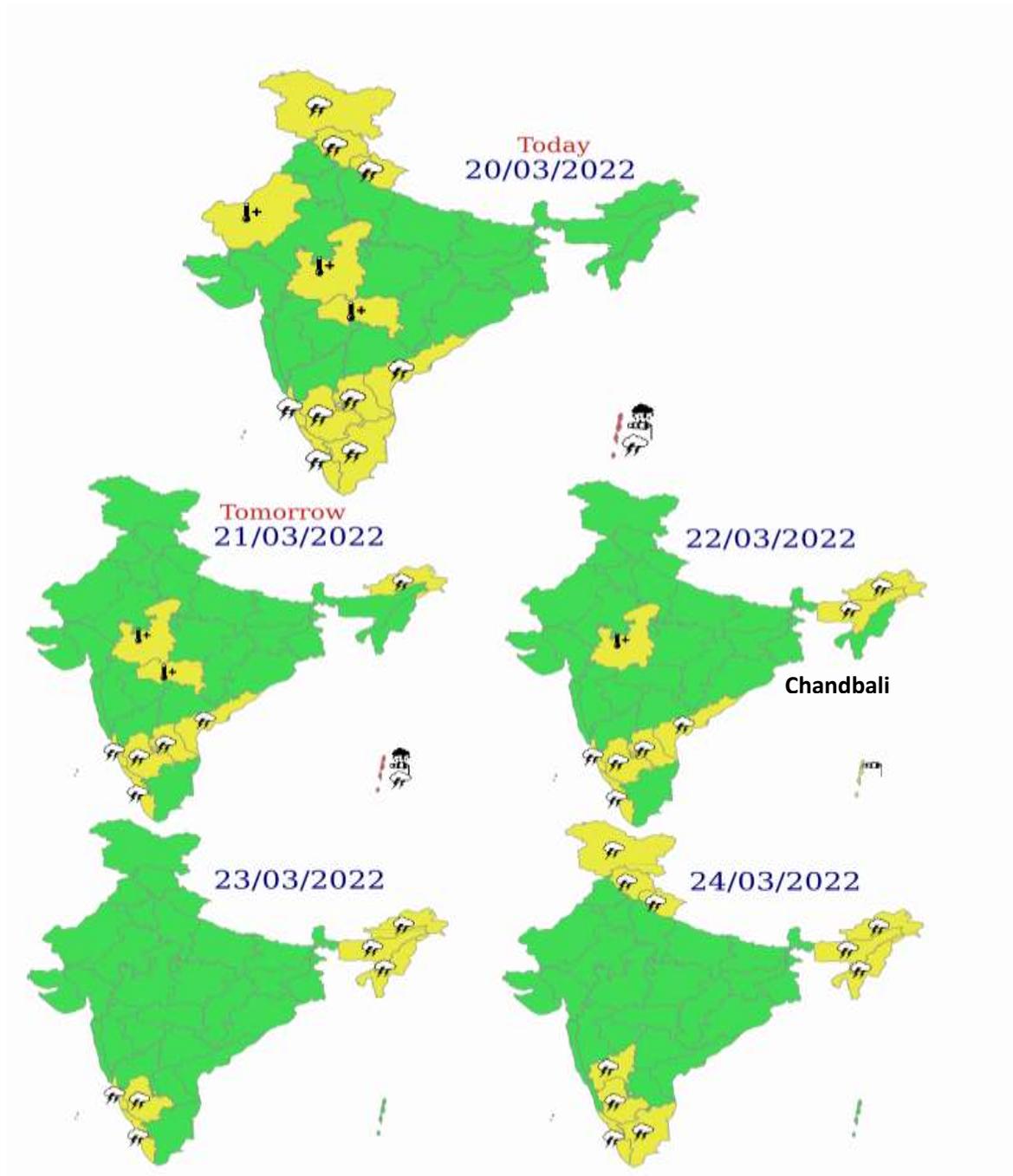
IMG\_TIR1\_TEMP 10.8 um 20-03-2022/(1000 to 1027) IST

L1C Mercator



D: Depression

# Rainfall Warning Graphics



**WARNING**

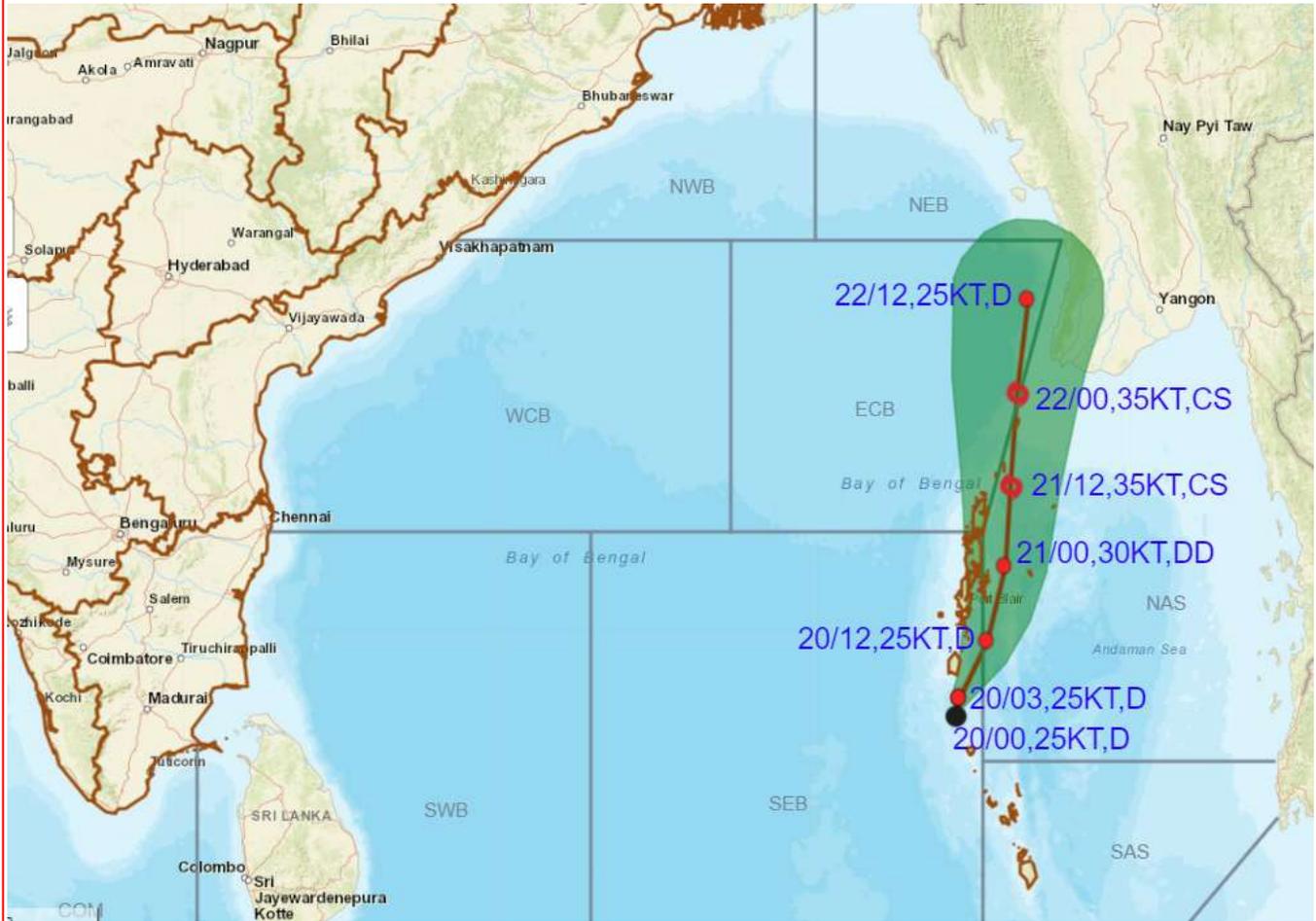
WARNING (TAKE ACTION)
ALERT ( BE PREPARED)
WATCH (BE UPDATED)
NO WARNING ( NO ACTION)

 Heavy Rain

 Strong Winds



**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER SOUTHEAST BAY OF BENGAL AND ADJOINING SOUTH ANDAMAN SEA ON 0300 UTC OF 20TH 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)

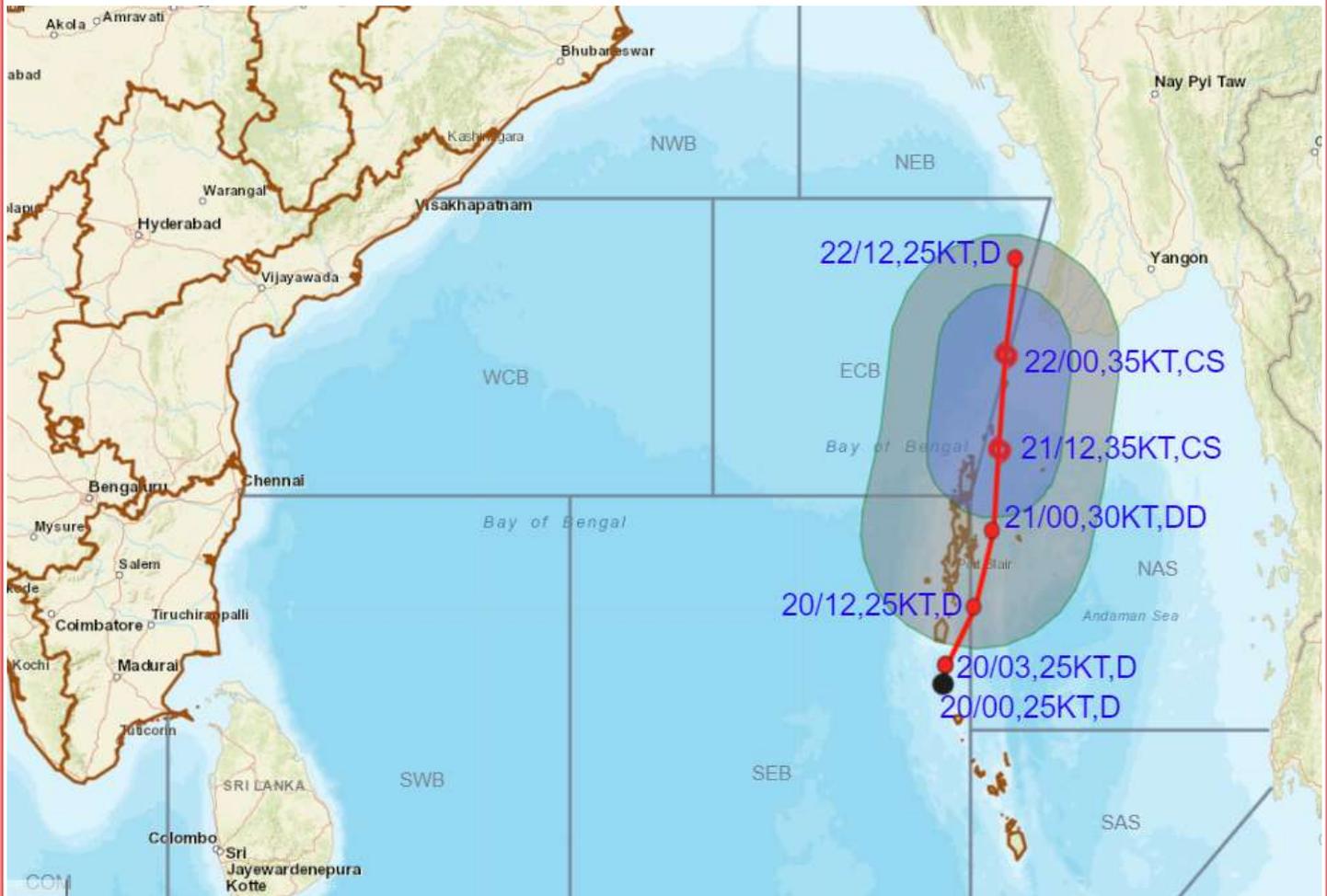
- LESS THAN 34 KT
- 34.47 KT
- $\geq 48$  KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS		
	20.03.22/0300	21.03.22/0000	22.03.22/0000
Yangon	840,SSW	570,SSW	310,WSW
Carnicobar	110,NNW	370,N	700,N
Hut bay	50,S	220,NNE	550,NNE
Portblair	170,S	110,NE	430,NNE
Maya bundar	320,S	80,SE	290,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 SOUTHEAST BAY OF BENGAL AND ADJOINING SOUTH ANDAMAN SEA ON 0300 UTC OF 20TH 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)

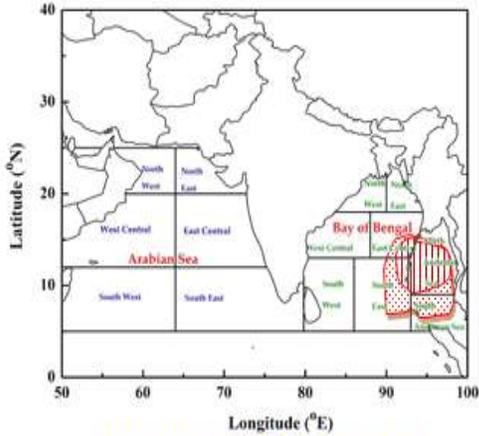
### IMPACT OVER THE SEA

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

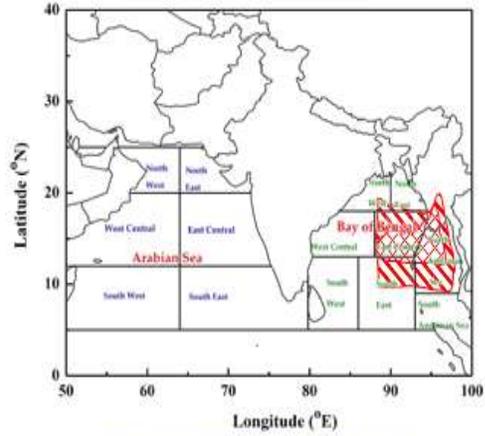
# Fishermen warning Graphics

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

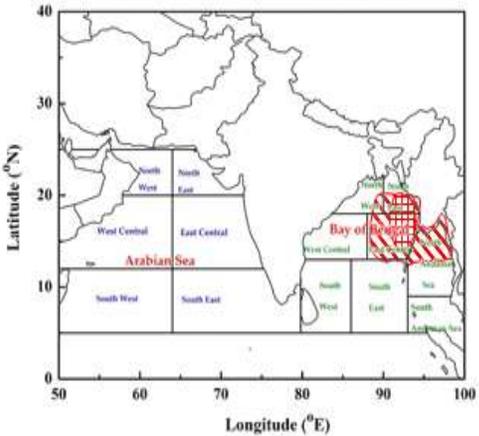
DAY-1: 20.03.2022/0600 UTC TO 21.03.2022/0600 UTC



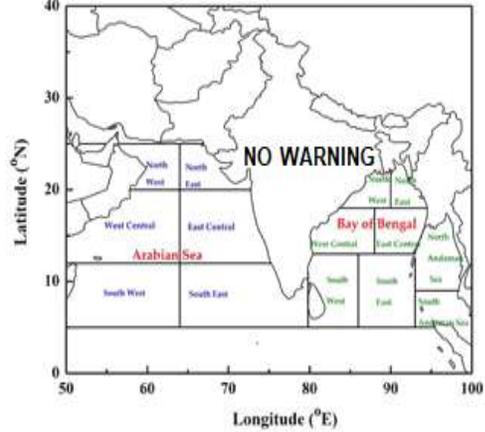
DAY-2: 21.03.2022/0600 UTC TO 22.03.2022/0600 UTC



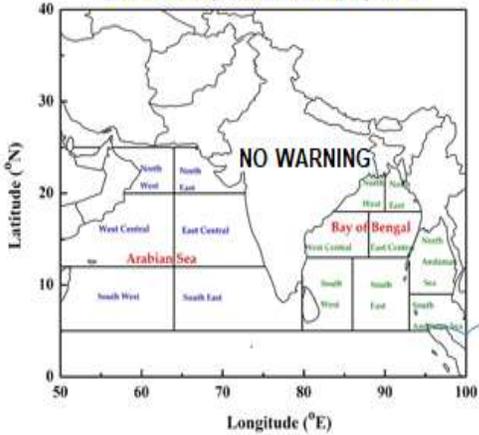
DAY-3: 22.03.2022/0600 UTC TO 23.03.2022/0600 UTC



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