



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI
TROPICAL WEATHER OUTLOOK**

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 22.03.2022

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0540 UTC OF 22.03.2022 BASED ON 0300 UTC OF 22.03.2022.

SUB: DEEP DEPRESSION OVER NORTH ANDAMAN SEA AND ADJOINING AREAS OF EASTCENTRAL BAY OF BENGAL

THE DEEP DEPRESSION OVER NORTH ANDAMAN SEA AND ADJOINING AREAS OF EASTCENTRAL BAY OF BENGAL, MOVED NEARLY NORTHWARDS WITH A SPEED OF 20 KMPH DURING LAST 06 HOURS, AND LAY CENTERED AT 0300 HOURS UTC OF TODAY, THE 22ND MARCH, OVER THE SAME REGION NEAR LATITUDE 15.2°N AND LONGITUDE 94.2°E, ABOUT 290 KM NORTH-NORTHEAST OF MAYABUNDAR (43309) (ANDAMAN ISLANDS), 420 KM NORTH-NORTHEAST OF PORT BLAIR (ANDAMAN ISLANDS) (43333), 270 KM SOUTHWEST OF YANGON (48097) (MYANMAR) AND 360 KM SOUTH OF THANDWE (48080) (MYANMAR).

IT WOULD CONTINUE TO MOVE NEARLY NORTHWARDS AWAY FROM ANDAMAN ISLANDS AND CROSS MYANMAR COAST AS A DEEP DEPRESSION BETWEEN LATITUDE 16°N & 18°N AROUND 0800 TO 0900 UTC OF 22ND MARCH.

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

DATE/TIME (UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
22.03.22/0300	15.2/94.2	55-65 GUSTING TO 75	DEEP DEPRESSION
22.03.22/0600	15.8/94.2	50-60 GUSTING TO 70	DEEP DEPRESSION
22.03.22/1200	16.7/94.4	45-55 GUSTING TO 65	DEPRESSION

AS PER INSAT 3D IMAGERY, INTENSITY OF THE SYSTEM IS CHARACTERISED AS T 2.0. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTH ANDAMAN SEA AND ADJOINING EASTCENTRAL BAY OF BENGAL BETWEEN LATITUDE 13.5°N & 17.0°N AND LONGITUDE 91.0°E & 95.0°E AND AND SOUTH MYANMAR COAST & ARAKAN COAST. MINIMUM CLOUD TOP TEMPERATURE IS AROUND MINUS 93 °C. SYSTEM MAINTAINED CLOUDS STRUCTURE DURING LAST 03 HRS. THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 30 KNOTS GUSTING TO 40 KNOTS. THE SEA CONDITION IS ROUGH TO VERY ROUGH OVER ANDAMAN SEA AND ADJOINING SOUTHEAST BAY OF BENGAL. THE ESTIMATED CENTRAL PRESSURE IS 1002 HPA.

STORM SURGE GUIDANCE

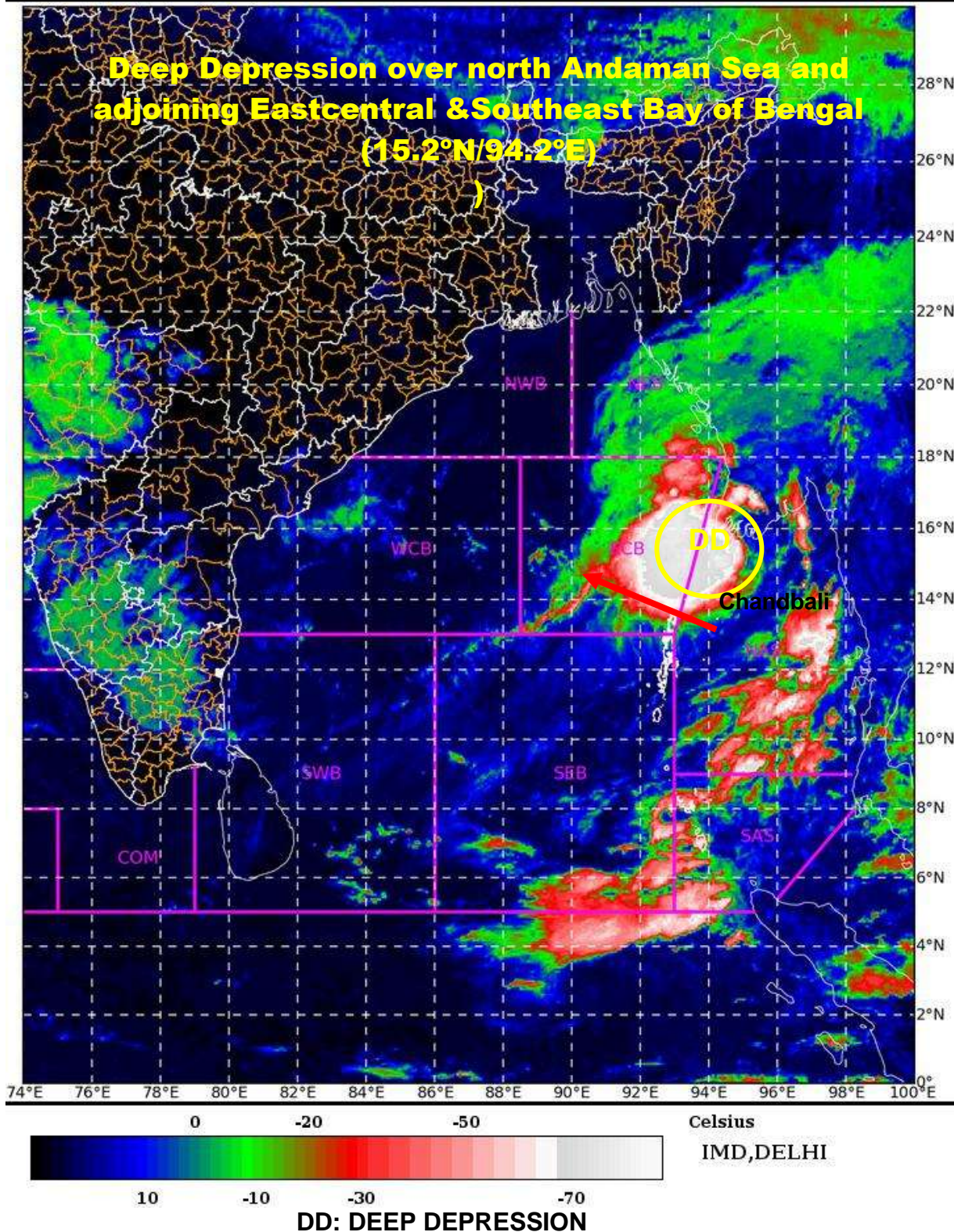
THE PEAK STORM SURGE OF 0.3 M TO 0.5 M OVER AND ABOVE THE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE THE LOW LYING AREAS OF COASTAL MYANMAR (MAP ENCLOSED).

REMARKS:

SEA SURFACE TEMPERATURE IS AROUND 28-29°C OVER NORTH ANDAMAN SEA AND ADJOINING EASTCENTRAL BAY OF BENGAL (BOB) BECOMING 26-28°C OVER NORTHEAST BOB. TROPICAL CYCLONE HEAT POTENTIAL IS AROUND 60-80 KJ/CM² OVER THE SAME REGION BECOMING LESS THAN 50 KJ/CM² OVER NORTH BOB.

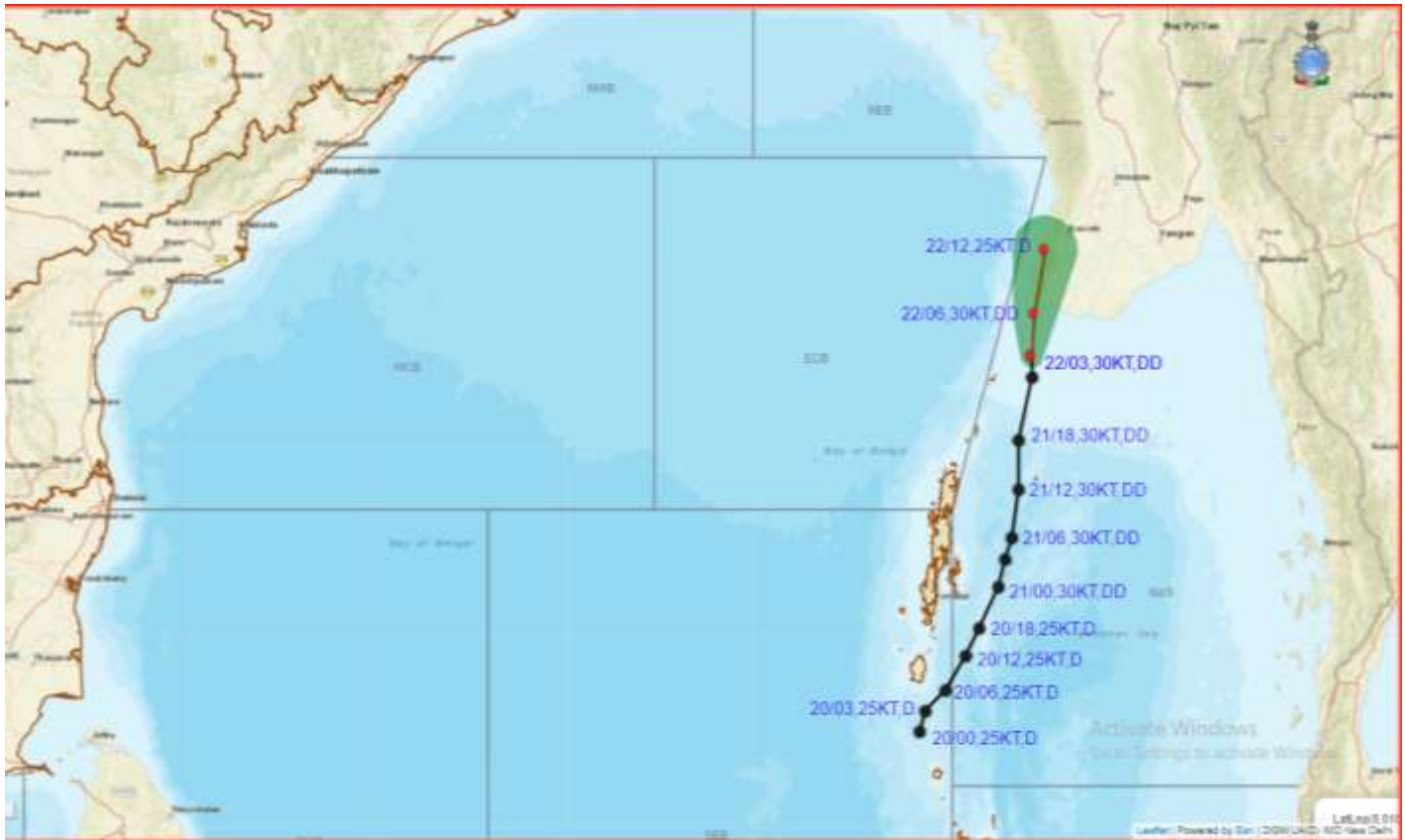
LOW LEVEL VORTICITY IN LAST 6 HOURS REMAINS AROUND $75 \times 10^{-6} \text{ S}^{-1}$ NEAR SYSTEM CENTRE WITH VERTICAL EXTENSION UPTO 500 HPA LEVEL. LOW LEVEL CONVERGENCE IS $15 \times 10^{-5} \text{ S}^{-1}$ TO THE NORTHEAST OF THE SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS AROUND $05 \times 10^{-5} \text{ S}^{-1}$ TO THE NORTH-NORTHEAST OF THE SYSTEM CENTRE. VERTICAL WIND SHEAR IS MODERATE TO HIGH (20-25 KNOTS) AROUND THE SYSTEM CENTRE WITH DECREASING TREND (BECOMING 10-15 KNOTS) ALONG THE EXPECTED TRACK OF THE SYSTEM. THE SYSTEM IS TRACKING NORTHWARDS ALONG THE PERIPHERY OF ANTICYCLONE LYING TO IT'S NORTHEAST OVER MYANMAR & ADJOINING THAILAND. UPPER TROPOSPHERIC RIDGE IS SEEN NEAR 17°N.

(RK JENAMANI)
SCIENTIST-F
RSMC NEW DELHI





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER NORTH ANDAMAN SEA AND ADJOINING AREAS OF EASTCENTRAL BAY OF BENGAL BASED ON 0300 UTC OF 22nd MARCH 2022

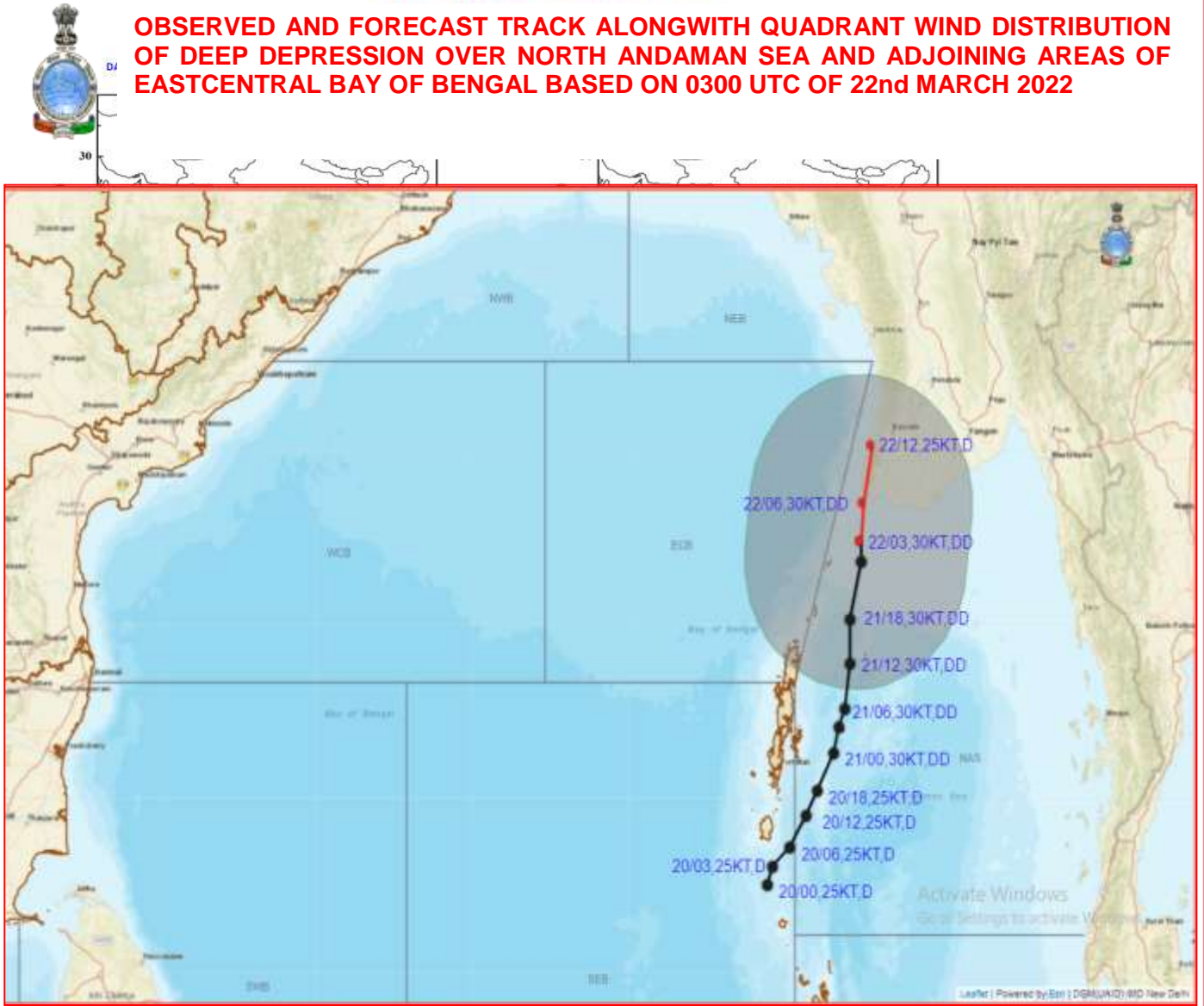


STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS			
		22.03.22/0300	22.03.22/1200	22.03.22/1200
Yangon	270,SW		190,W	190,W
Tandwe	360,S		200,S	200,S
Hut bay	540,NNE		710,NNE	710,NNE
Portblair	420,NNE		590,NNE	590,NNE
Maya bundar	290,NNE		450,NNE	450,NNE

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

INDIA METEOROLOGICAL DEPARTMENT

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER NORTH ANDAMAN SEA AND ADJOINING AREAS OF EASTCENTRAL BAY OF BENGAL BASED ON 0300 UTC OF 22nd 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 (≥20 KT)

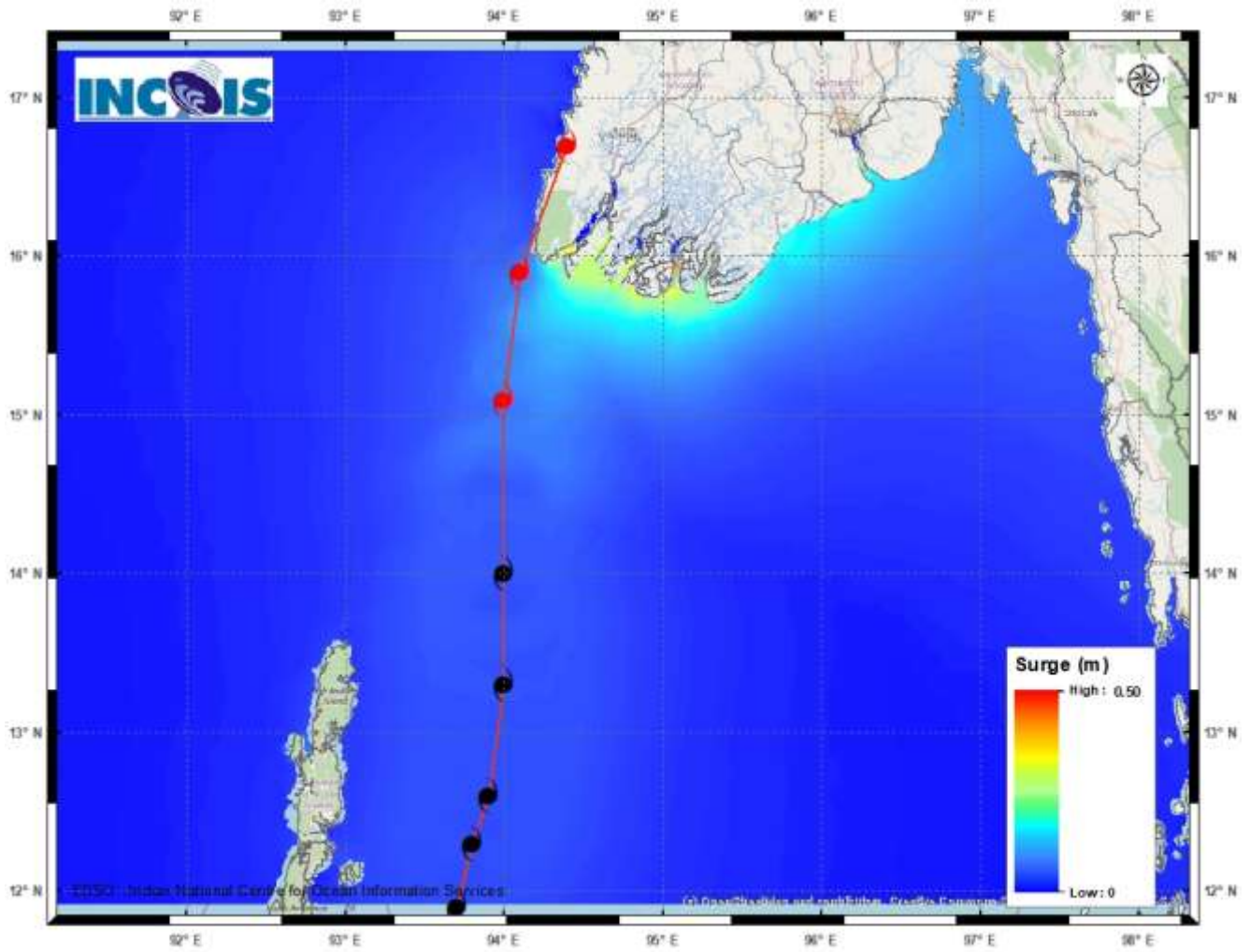
- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- ▲ CONE OF UNCERTAINTY

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



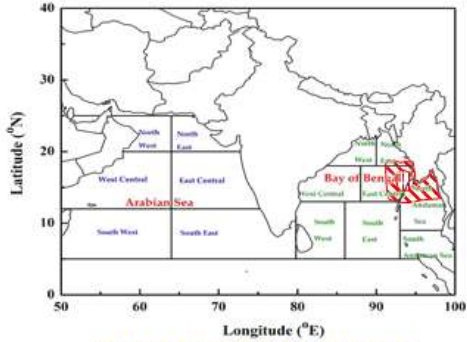
Storm Surge guidance for Myanmar coast.

Fisherman Warning

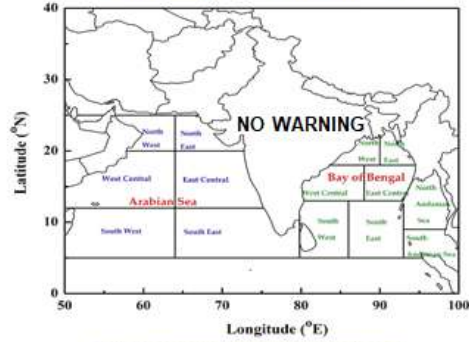
INDIA METEOROLOGICAL DEPARTMENT

FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA

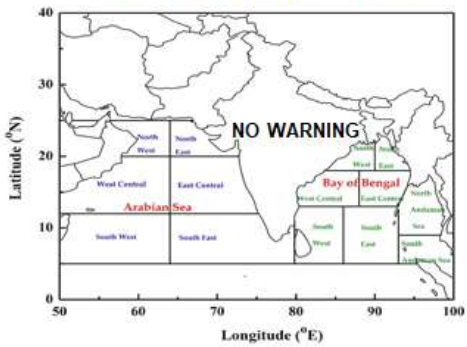
DAY-1: 22.03.2022/0600 UTC TO 23.03.2022/0600 UTC



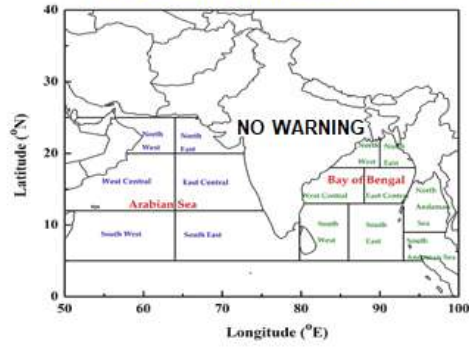
DAY-2: 23.03.2022/0600 UTC TO 24.03.2022/0600 UTC



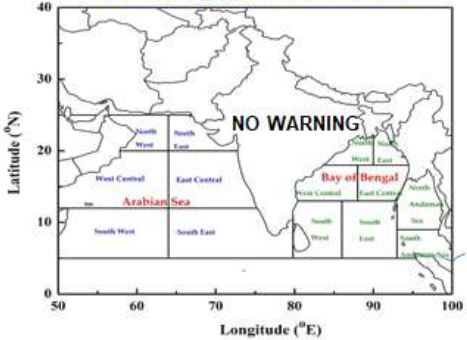
DAY-3: 24.03.2022/0600 UTC TO 25.03.2022/0600 UTC



DAY-4: 25.03.2022/0600 UTC TO 26.03.2022/0600 UTC



DAY-5: 26.03.2022/0600 UTC TO 27.03.2022/0600 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
- 65-75 KMPH GUSTING TO 85 KMPH