



**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 1130 UTC OF 22.03.2022 BASED ON 0900 UTC OF 22.03.2022.

SUBJECT: DEEP DEPRESSION OVER NORTH ANDAMAN SEA AND ADJOINING AREAS OF EASTCENTRAL BAY OF BENGAL CROSSED MYANMAR COAST.

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, CROSSED MYANMAR COAST NEAR LATITUDE 16.0°N & LONGITUDE 94.2°E AS A DEEP DEPRESSION BETWEEN 0800 UTC & 0900 UTC AND LAY CENTERED AT 0900 UTC OF TODAY, THE 22ND MARCH, OVER COASTAL MYANMAR NEAR LATITUDE 16.3°N & LONGITUDE 94.3°E, ABOUT 210 KM WEST-SOUTHWEST OF YANGON (48097), 240 KM SOUTH OF THANDWE (48080), 410 KM NORTH-NORTHEAST OF MAYABUNDAR (43309), 540 KM NORTH-NORTHEAST OF PORT BLAIR (43333).

IT WOULD CONTINUE TO MOVE NEARLY NORTH-NORTHEASTWARDS INLAND OVER MYANMAR AND WEAKEN GRADUALLY INTO A DEPRESSION DURING NEXT FEW HOURS.

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
22.03.22/0900	16.3/94.3	50-60 GUSTING TO 70	DEEP DEPRESSION
22.03.22/1200	16.7/94.4	45-55 GUSTING TO 65	DEPRESSION
22.03.22/1800	17.6/94.8	40-50 GUSTING TO 60	DEPRESSION

AS PER INSAT 3D IMAGERY, INTENSITY OF THE SYSTEM IS CHARACTERISED AS C.I. 2.0. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTH ANDAMAN SEA OFF SOUTH MYANMAR COAST AND ADJOINING EASTCENTRAL BAY OF BENGAL BETWEEN LATITUDE 14.5°N & 18.0°N AND LONGITUDE 91.0°E & 95.0°E AND OVER SOUTH MYANMAR COAST, ARAKAN COAST AND GULF OF MARTABAN. MINIMUM CLOUD TOP TEMPERATURE IS AROUND MINUS 93 °C.

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

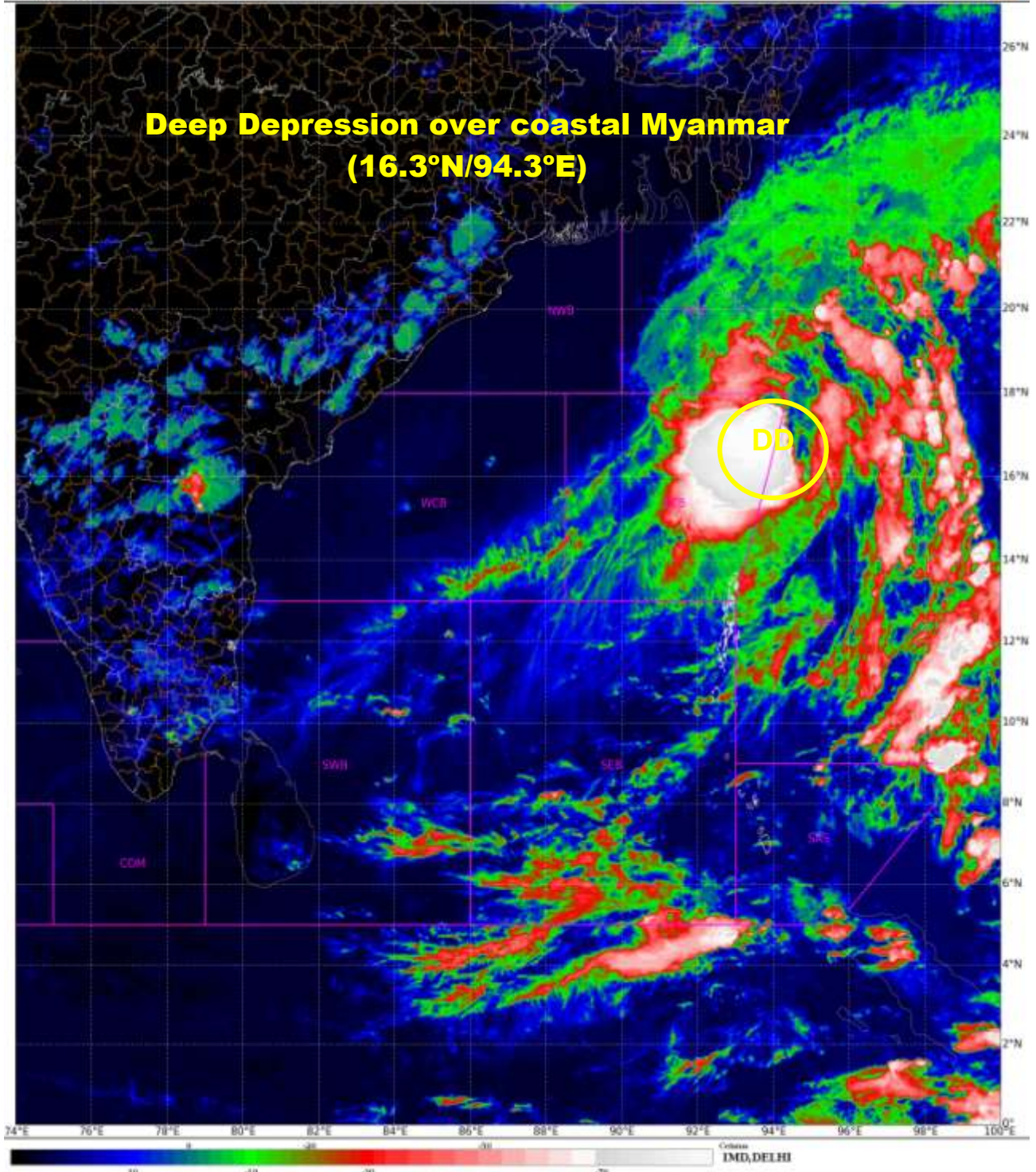
THE PEAK STORM SURGE OF 0.3 M TO 0.5 M OVER AND ABOVE THE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE THE LOW LYING AREAS OF COASTAL MYANMAR DURING NEXT 3 HOURS AND DECREASE THEREAFTER (MAP ENCLOSED).

REMARKS:

SEA SURFACE TEMPERATURE IS AROUND 28-29⁰C OVER NORTH ANDAMAN SEA AND ADJOINING EASTCENTRAL BAY OF BENGAL (BOB) BECOMING 26-28⁰C 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 70-80 X10⁻⁶ S⁻¹ TO THE SOUTH OF SYSTEM CENTRE WITH VERTICAL EXTENSION UPTO 500 HPA LEVEL. LOW LEVEL CONVERGENCE IS 30X10⁻⁵ S⁻¹ AROUND SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS AROUND 10 X10⁻⁵ S⁻¹ AROUND SYSTEM CENTRE. VERTICAL WIND SHEAR IS MODERATE TO HIGH (15-20 KNOTS) AROUND THE SYSTEM CENTRE. THE SYSTEM IS EXPECTED TO TRACK NORTH-NORTHEASTWARDS ALONG THE PERIPHERY OF ANTICYCLONE LYING TO IT'S NORTHEAST OVER MYANMAR & ADJOINING THAILAND. UPPER TROPOSPHERIC RIDGE IS SEEN NEAR 17⁰N.

**(M SHARMA)
SCIENTIST-D
RSMC NEW DELHI**



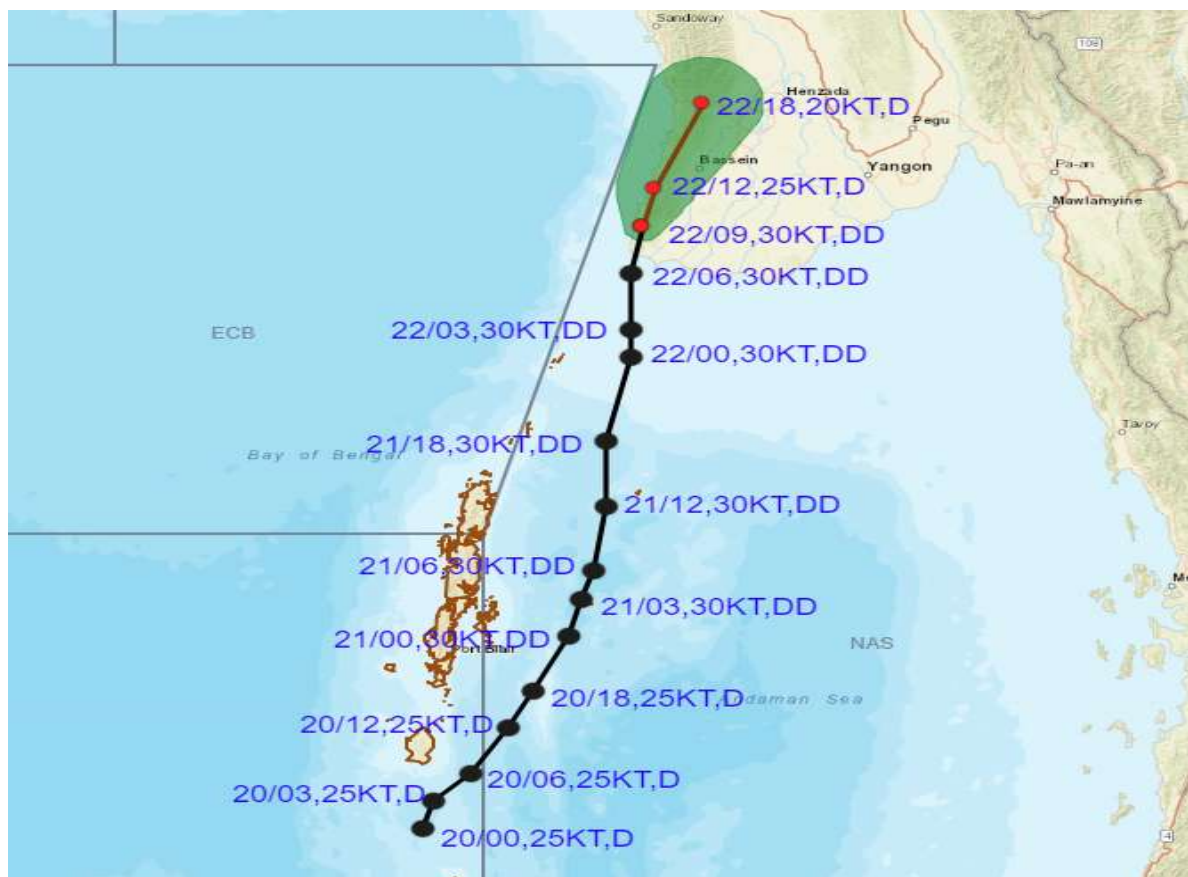
**Deep Depression over coastal Myanmar
(16.3°N/94.3°E)**

DD

DD: DEEP DEPRESSION



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER COASTAL MYANMAR BASED ON 0900 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)

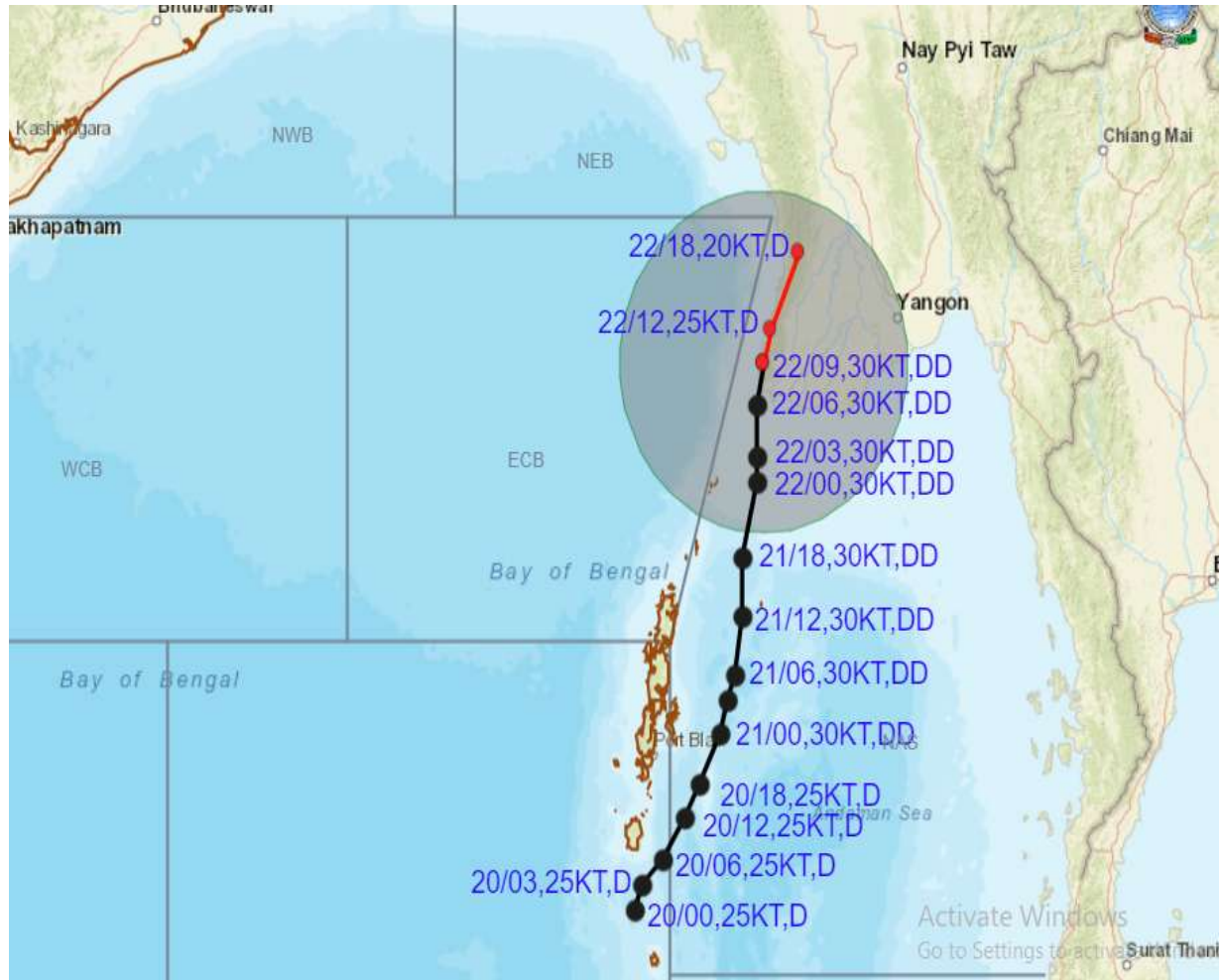
- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS	
	22.03.22/0900	22.03.22/1800
Yangon	210, WSW	170, WNW
Tandwe	240, S	110, SSE
Hut bay	660, NNE	820, NNE
Portblair	540, NNE	700, NNE
Maya bundar	410, NNE	560, 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 COASTAL MYANMAR BASED ON 0900 UTC OF 22nd MARCH 2022



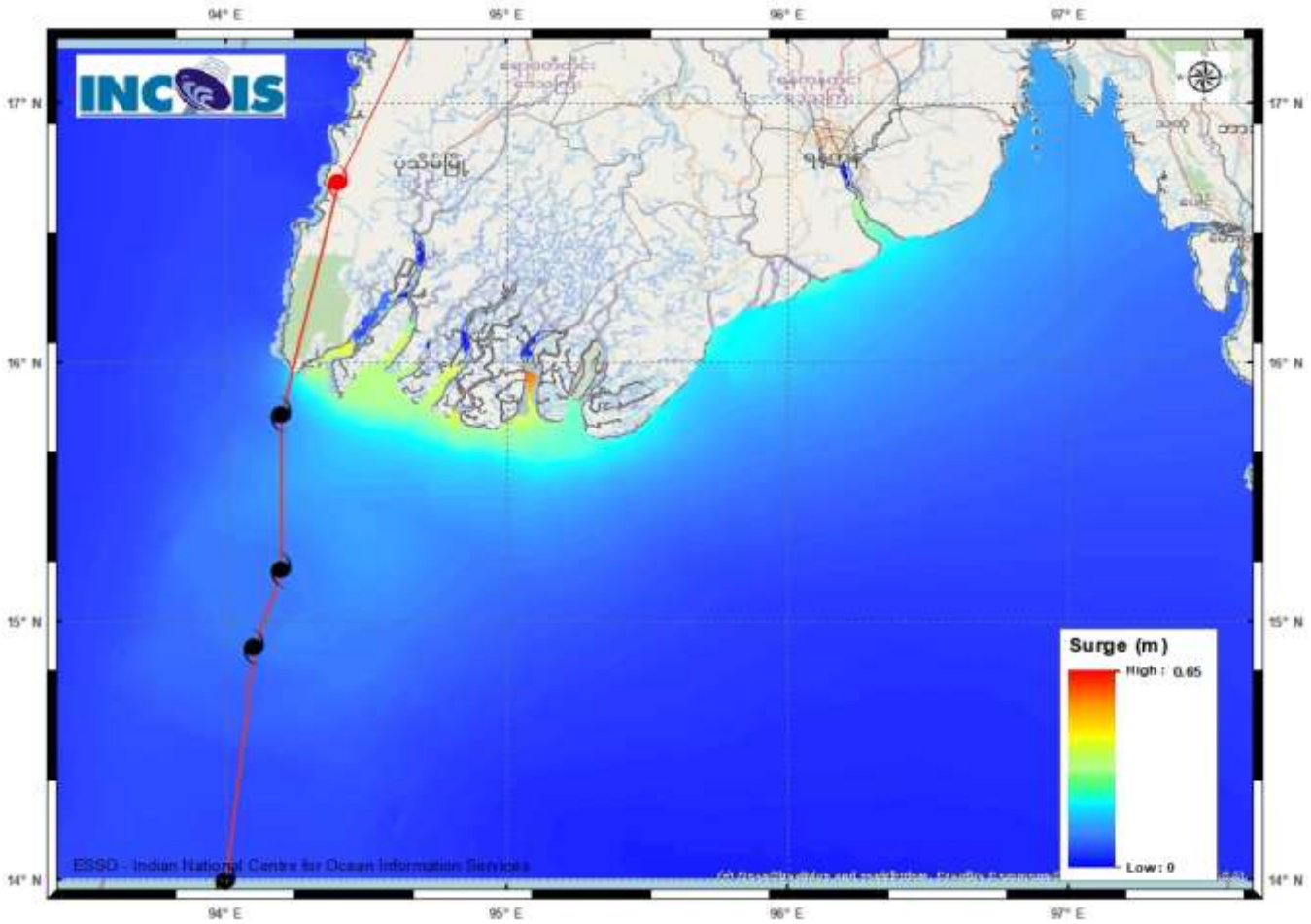
DATE/TIME IN UTC
 IST=UTC + 0530
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 SuCS: SUPER CYCLONIC STORM (≥20 KT)

● 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 from INCOIS (Issued at 0630 UTC)

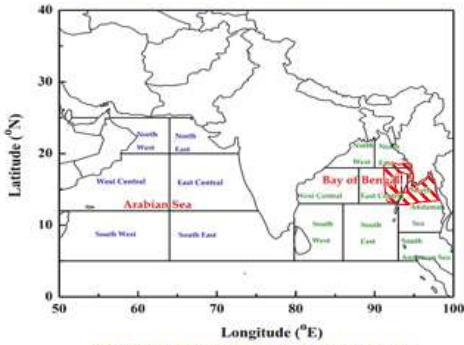


Fisherman Warning

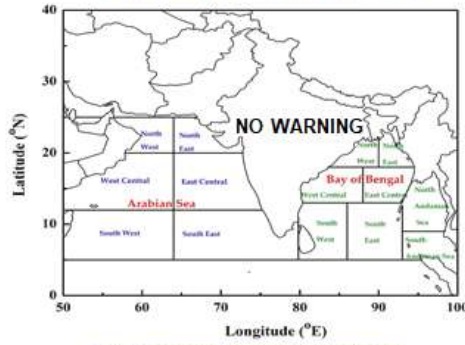
INDIA METEOROLOGICAL DEPARTMENT

FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA

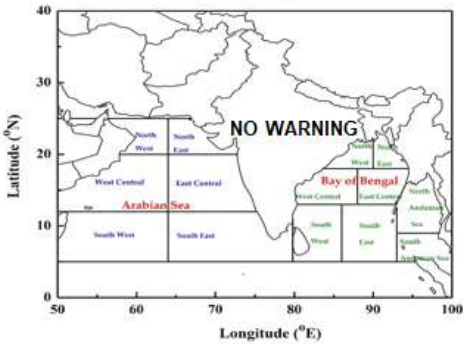
DAY-1: 22.03.2022/0600 UTC TO 23.03.2022/0600 UTC



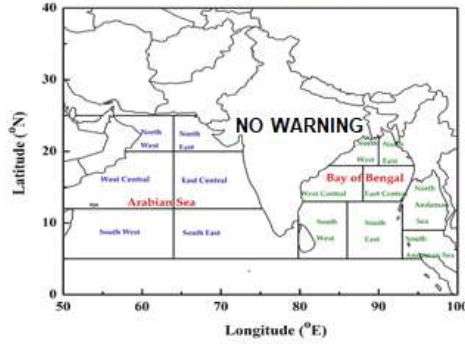
DAY-2: 23.03.2022/0600 UTC TO 24.03.2022 /0600 UTC



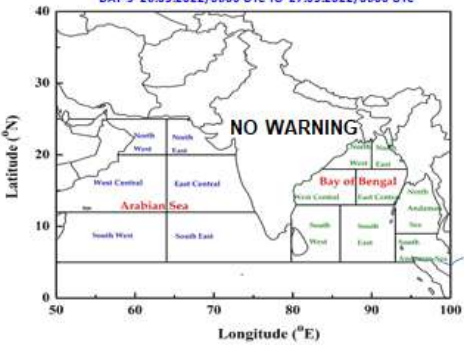
DAY-3: 24.03.2022/0600 UTC TO 25.03.2022/0600 UTC



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