



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

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**

**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)  
STORM WARNING CENTRE, BANGKOK (THAILAND)  
STORM WARNING CENTRE, COLOMBO (SRILANKA)  
STORM WARNING CENTRE, DHAKA (BANGLADESH)  
STORM WARNING CENTRE, KARACHI (PAKISTAN)  
METEOROLOGICAL OFFICE, MALE (MALDIVES)  
OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)  
YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)  
NATIONAL CENTRE FOR METEOROLOGY, UAE (THROUGH RTH JEDDAH)  
PRESIDENCY OF METEOROLOGY AND ENVIRONMENT, SAUDI ARABIA (THROUGH RTH JEDDAH)  
IRAN METEOROLOGICAL ORGANISATION, (THROUGH RTH JEDDAH)  
QATAR METEOROLOGICAL DEPARTMENT (THROUGH RTH JEDDAH)**

**TROPICAL CYCLONE ADVISORY NO. 2 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0600 UTC OF 08.05.2022 BASED ON 0300 UTC OF 08.05.2022**

**SUB: CYCLONIC STORM 'ASANI' OVER SOUTHEAST BAY OF BENGAL**

THE **CYCLONIC STORM 'ASANI' (PRONOUNCED AS ASANI)** OVER SOUTHEAST BAY OF BENGAL MOVED NORTHWESTWARDS WITH A SPEED OF 13 KMPH DURING PAST 6 HOURS AND LAY CENTERED AT 0300 UTC OF TODAY, THE 08<sup>TH</sup> MAY, OVER THE SAME REGION NEAR LATITUDE 11.4°N AND LONGITUDE 89.1°E, ABOUT 480 KM WEST-NORTHWEST OF CAR NICOBAR (43367), 400 KM WEST OF PORT BLAIR (43333), 940 KM SOUTHEAST OF VISAKHAPATNAM (43149) AND 1000 KM SOUTH-SOUTHEAST OF PURI (43053).

IT IS VERY LIKELY TO MOVE NORTHWESTWARDS AND INTENSIFY FURTHER INTO A **SEVERE CYCLONIC STORM** OVER EASTCENTRAL BAY OF BENGAL DURING NEXT 12 HOURS. IT IS VERY LIKELY TO CONTINUE TO MOVE NORTHWESTWARDS TILL 1200 UTC OF 10<sup>TH</sup> MAY AND REACH WESTCENTRAL & ADJOINING NORTHWEST BAY OF BENGAL OFF NORTH ANDHRA PRADESH & ODISHA COASTS. THEREAFTER, IT IS VERY LIKELY TO RECURVE NORTH-NORTHEASTWARDS AND MOVE TOWARDS NORTHWEST BAY OF BENGAL OFF ODISHA COAST.

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

<b>DATE/TIME(UTC)</b>	<b>POSITION (LAT. °N/ LONG. °E)</b>	<b>MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)</b>	<b>CATEGORY OF CYCLONIC DISTURBANCE</b>
08.05.22/0300	11.4/89.1	65-75 GUSTING TO 85	CYCLONIC STORM
08.05.22/0600	11.9/88.9	70-80 GUSTING TO 90	CYCLONIC STORM
08.05.22/1200	12.6/88.4	90-100 GUSTING 110	SEVERE CYCLONIC STORM
08.05.22/1800	13.3/87.9	95-105 GUSTING 115	SEVERE CYCLONIC STORM
09.05.22/0000	14.1/87.3	105-115 GUSTING TO 125	SEVERE CYCLONIC STORM
09.05.22/1200	15.4/86.4	105-115 GUSTING TO 125	SEVERE CYCLONIC STORM
10.05.22/0000	16.3/85.8	95-105 GUSTING TO 115	SEVERE CYCLONIC STORM
10.05.22/1200	17.2/85.4	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
11.05.22/0000	18.0/85.3	80-90 GUSTING TO 100	CYCLONIC STORM

11.05.22/1200	18.4/85.5	70-80 GUSTING TO 90	CYCLONIC STORM
12.05.22/0000	18.9/85.9	60-70 GUSTING TO 80	CYCLONIC STORM
12.05.22/1200	19.3/86.5	50-60 GUSTING TO 70	DEEP DEPRESSION

THE INTENSITY OF THE SYSTEM IS T2.5. SATELLITE IMAGERY INDICATES RAINBANDS FROM NORTH & WEST PERIPHERY WRAPPING INTO THE CORE. MULTISAT WINDS INDICATE STRONGER WINDS IN THE NORTHEAST SECTOR. INSAT-3D IMAGERY INDICATES SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER AREA BETWEEN LATITUDE 8.5N & 18.5N AND LONGITUDE 83.5E & 92.5E AND ANDAMAN & NICOBAR ISLANDS. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEG C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 35 KNOTS GUSTING TO 45 KNOTS. THE SEA CONDITION IS HIGH TO VERY HIGH OVER SOUTHEAST BAY OF BENGAL & ADJOINING ANDAMAN SEA. THE ESTIMATED CENTRAL PRESSURE IS 998 HPA.

A BUOY LOCATED NEAR 13.4<sup>0</sup>N/84.0<sup>0</sup>E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1003HPA, SEA SURFACE TEMPERATURE (SST) 30.6<sup>0</sup>C & MAXIMUM SUSTAINED WIND SPEED (MSW) OF 340<sup>0</sup>/10KT. ANOTHER BUOY LOCATED NEAR 16.4<sup>0</sup>N/88.0<sup>0</sup>E REPORTED MSLP OF 1005HPA, 30.5<sup>0</sup>C & MSW OF 60<sup>0</sup>/16KT. PORT BLAIR (43333) REPORTED MSLP OF 1004.1HPA, & MSW OF 90<sup>0</sup>/09KT AND COCO ISLAND (48109) REPORTED MSLP OF 1005.2HPA & MSW OF 230<sup>0</sup>/07KT.

**REMARKS:**

THE MADDEN JULIAN OSCILLATION INDEX (MJO) CURRENTLY LIES IN PHASE 5 WITH AMPLITUDE LESS THAN 1. IT WOULD CONTINUE IN SAME PHASE 5 DURING NEXT 4 DAYS WITH GRADUALLY INCREASING AMPLITUDE. HENCE, MJO WILL SUPPORT ENHANCEMENT OF CONVECTIVE ACTIVITY OVER THE BAY OF BENGAL (BOB) DURING NEXT 4-5 DAYS.

SEA SURFACE TEMPERATURE (SST) IS AROUND 30-31<sup>0</sup>C OVER ENTIRE BOB. THE OCEAN HEAT CONTENT (OHC) IS >100 KJ/CM<sup>2</sup> OVER ENTIRE ANDAMAN SEA, CENTRAL BOB, SOUTH BOB & ADJOINING EIO AND 50-70 KJ/CM<sup>2</sup> OVER NORTHWEST BOB.

LOW LEVEL VORTICITY HAS INCREASED DURING PAST 3 HOURS AND IS AROUND 200 X10<sup>-6</sup> S<sup>-1</sup> TO THE SOUTHWEST OF THE SYSTEM CENTRE. VERTICALLY IT IS EXTENDING UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE HAS INCREASED AND IS AROUND 40 X10<sup>-5</sup> S<sup>-1</sup> TO THE SOUTHWEST OF SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS AROUND 30 X10<sup>-5</sup> S<sup>-1</sup> TO THE SOUTHWEST OF SYSTEM CENTRE. STRONG WESTWARD OUTFLOW IS SEEN IN UPPER LEVELS. WIND SHEAR IS MODERATE (20 KNOTS) AROUND THE SYSTEM AREA. IT IS LIKELY TO REMAIN MODERATE (15-20 KNOTS) ALONG THE FORECAST TRACK OVER WESTCENTRAL & NORTHWEST BOB. TOTAL PRECIPITABLE WATER IMAGERY INDICATE WARM MOIST AIR FEEDING INTO THE SYSTEM AREA.

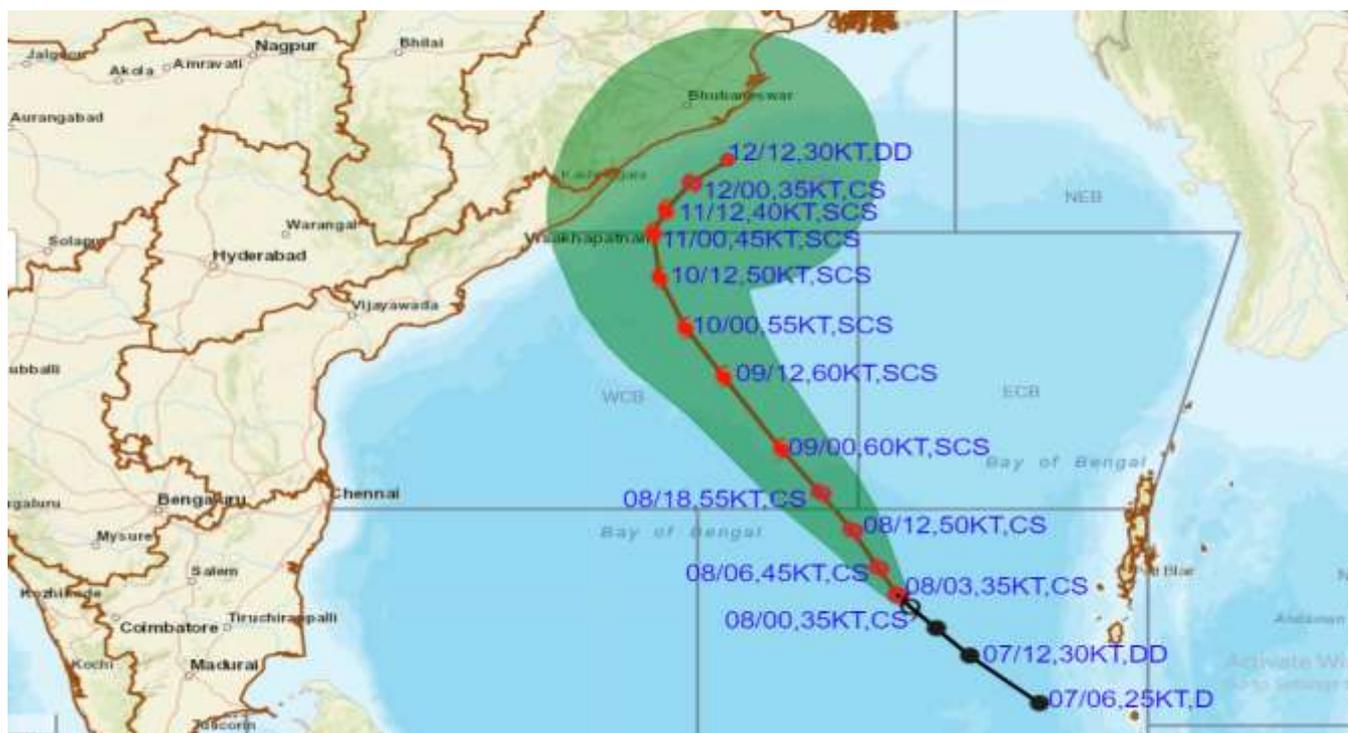
MOST OF THE NUMERICAL MODELS ARE IN GOOD AGREEMENT THAT THE SYSTEM WOULD INTENSIFY INTO A **SEVERE CYCLONIC STORM** OVER EASTCENTRAL BAY OF BENGAL BY 1200 UTC OF 8<sup>TH</sup> MAY. MOST OF THE MODELS ARE ALSO UNANIMOUS THAT THE SYSTEM WOULD MOVE NORTHWESTWARDS TILL 10<sup>TH</sup> MAY EVENING AND THEREAFTER RECURVE NORTH-NORTHEASTWARDS.

IN VIEW OF ALL THE ABOVE, IT IS INFERRED THAT THE SYSTEM IS VERY LIKELY TO MOVE NORTHWESTWARDS AND INTENSIFY FURTHER INTO A **SEVERE CYCLONIC STORM** OVER EASTCENTRAL BAY OF BENGAL DURING NEXT 12 HOURS. IT IS VERY LIKELY TO CONTINUE TO MOVE NORTHWESTWARDS TILL 1200 UTC OF 10<sup>TH</sup> MAY AND REACH WESTCENTRAL & ADJOINING NORTHWEST BAY OF BENGAL OFF NORTH ANDHRA PRADESH & ODISHA COASTS. THEREAFTER, IT IS VERY LIKELY TO RECURVE NORTH-NORTHEASTWARDS AND MOVE TOWARDS NORTHWEST BAY OF BENGAL OFF ODISHA COAST.

(MONICA SHARMA )  
SCIENTIST-D  
RSMC NEW DELHI



## FORECAST TRACK AND INTENSITY OF CYCLONIC STORM 'ASANI' ALONGWITH CONE OF UNCERTAINTY OVER SOUTHEAST BAY OF BENGAL BASED ON 0300 UTC OF 8<sup>TH</sup> MAY 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 (≥ 120 KT)**

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

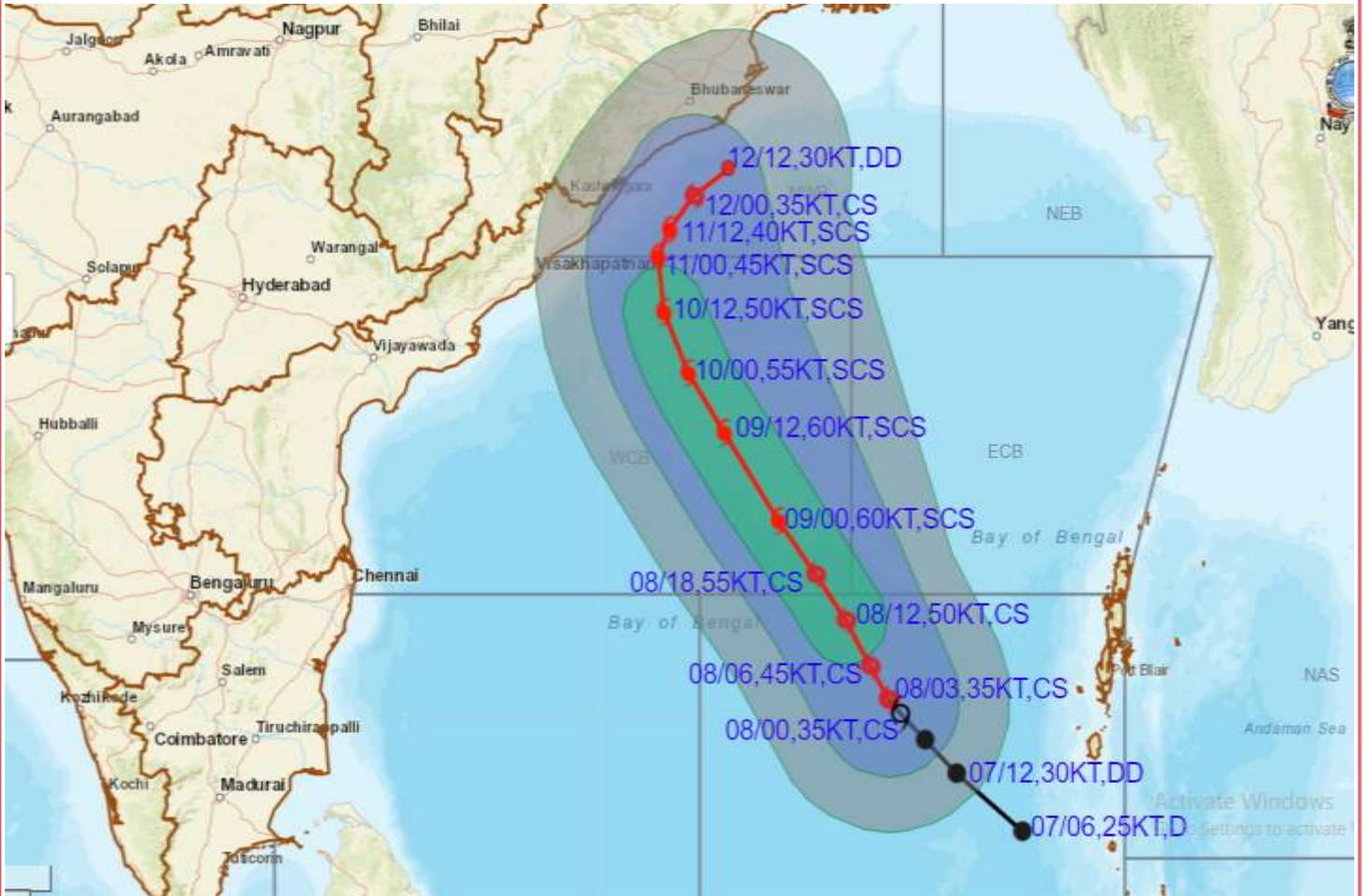
STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS		
	09.05.22/0000	10.05.22/0000	11.05.22/0000
CAR NICOBAR	820,NW	1100,NW	1280,NW
PORT BLAIR	650,WNW	910,NW	1060,NW
VISHAKHAPATNAM	590,SE	310,ESE	210,E
PURI	650,SSE	390,S	210,SSW

Forecast distance (km) and direction of the centre from nearest 5 coastal stations								
Forecast Date and Time	Lead Period	Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
08.05.22/0300	0	11.4	89.1	HUT BAY (388,WNW)	PORT BLAIR (396,W)	LONG ISLAND (433,WSW)	MAYA BANDAR (448,WSW)	CAR NICOBAR (479,WNW)
08.05.22/0600	3	11.9	88.8	PORT BLAIR (428,W)	LONG ISLAND (435,W)	MAYA BANDAR (453,WSW)	CAR NICOBAR (462,NW)	NANCOWRY (536,NW)
08.05.22/1200	9	12.6	88.4	LONG ISLAND (481,W)	MAYA BANDAR (492,W)	CAR NICOBAR (493,NW)	NANCOWRY (505,NW)	KONDUL (617,NW)
08.05.22/1800	15	13.3	87.9	MAYA BANDAR (546,W)	CAR NICOBAR (554,NW)	NANCOWRY (555,NW)	KONDUL (590,NW)	PATHEIN (690,WSW)
09.05.22/0000	21	14.1	87.3	CAR NICOBAR (580,NW)	NANCOWRY (585,NW)	KONDUL (588,NW)	PATHEIN (622,WSW)	VISHAKHAPATNAM/ WALTAIR (624,SE)
09.05.22/1200	33	15.4	86.4	NANCOWRY (406,NW)	KONDUL (417,NW)	PATHEIN (419,W)	VISHAKHAPATNAM/ WALTAIR (460,SE)	KALINGAPATAM (465,SE)
10.05.22/0000	45	16.3	85.8	KONDUL (287,NW)	PATHEIN (307,W)	VISHAKHAPATNAM/ WALTAIR (309,ESE)	KALINGAPATAM (344,SE)	VISHAKHAPATNAM (365,ESE)
10.05.22/1200	57	17.2	85.4	PATHEIN (184,W)	VISHAKHAPATNAM/ WALTAIR (229,ESE)	KALINGAPATAM (230,SE)	VISHAKHAPATNAM (236,ESE)	KAKINADA (293,E)
11.05.22/0000	69	18	85.3	VISHAKHAPATNAM/ WALTAIR (129,E)	KALINGAPATAM (148,ESE)	VISHAKHAPATNAM (208,E)	KAKINADA (214,ENE)	TUNI (215,ENE)
11.05.22/1200	81	18.4	85.5	KALINGAPATAM (116,E)	VISHAKHAPATNAM (145,ENE)	KAKINADA (159,ENE)	TUNI (209,ENE)	SANDOWAY (235,W)
12.05.22/0000	93	18.9	85.9	VISHAKHAPATNAM	KAKINADA (114,ENE)	TUNI (150,ENE)	SANDOWAY (174,W)	YANGON (176,WNW)

**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**



# FORECAST TRACK AND INTENSITY ALONGWITH QUADRANT WIND DISTRIBUTION CYCLONIC STORM 'ASANI' OVER SOUTHEAST BAY OF BENGAL BASED ON 0300 UTC OF 8<sup>TH</sup> MAY 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)  
ECS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)  
SuCS: SUPER CYCLONIC STORM (≥ 120 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

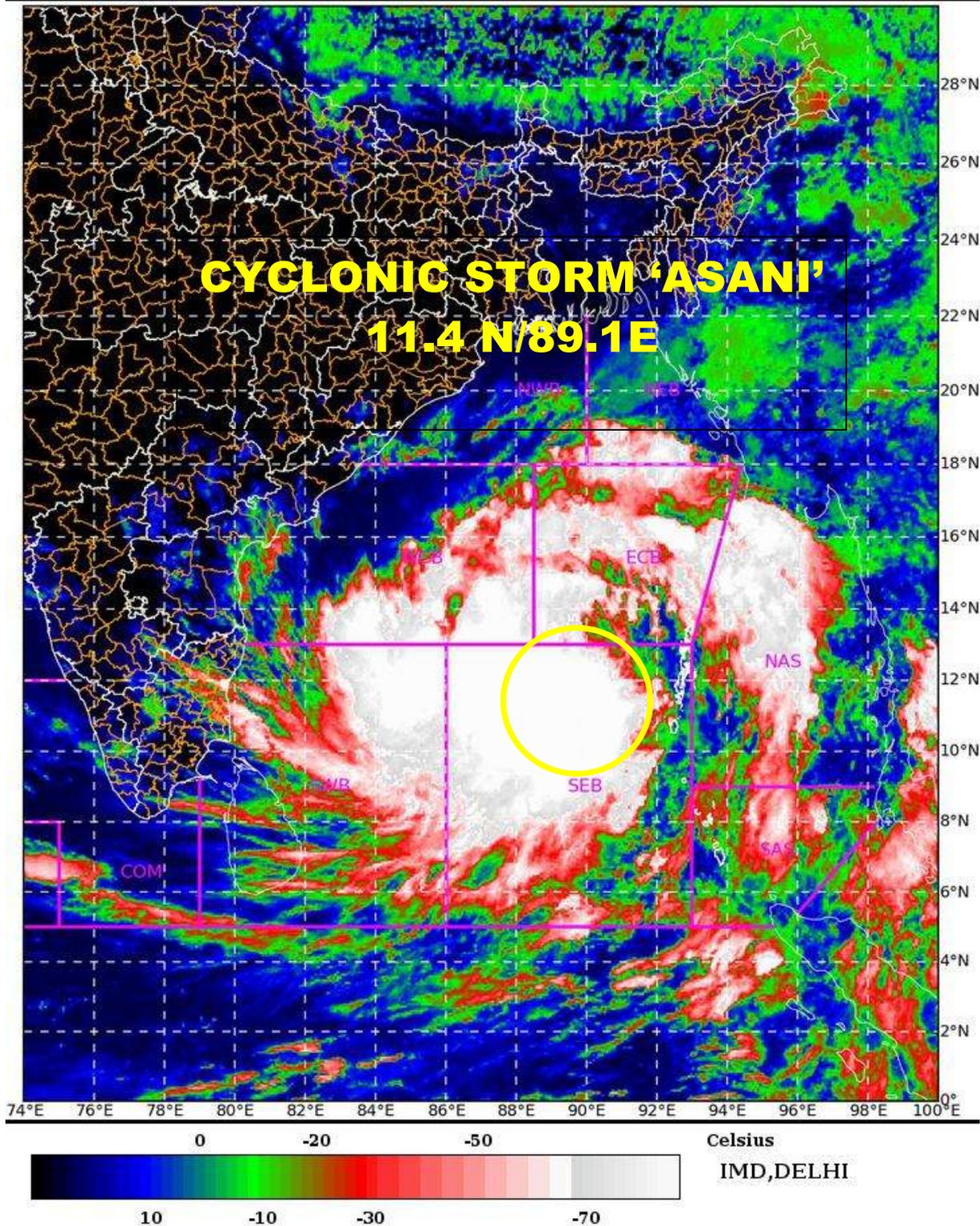
SAT : INSAT-3D IMG

08-05-2022/(0500 to 0526) GMT

IMG\_TIR1\_TEMP 10.8 um

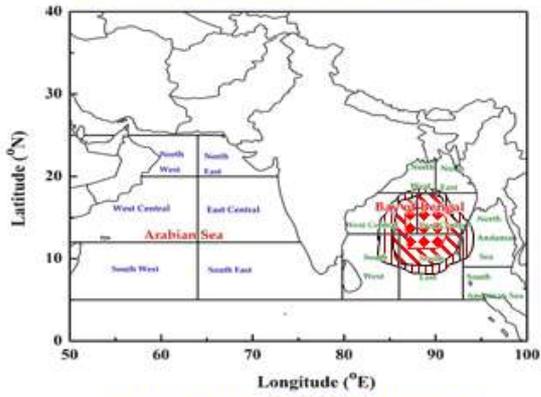
08-05-2022/(1030 to 1056) IST

L1C Mercator

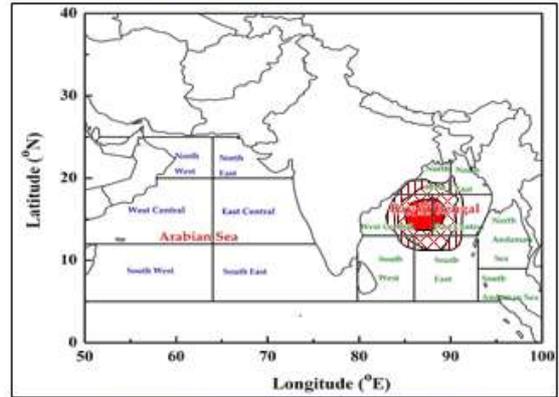


**INDIA METEOROLOGICAL DEPARTMENT**  
**FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA**

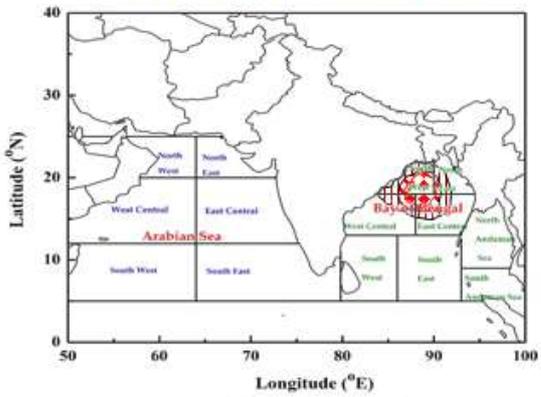
DAY-1: 08.05.2022/0600 UTC TO 09.05.2022/0600 UTC



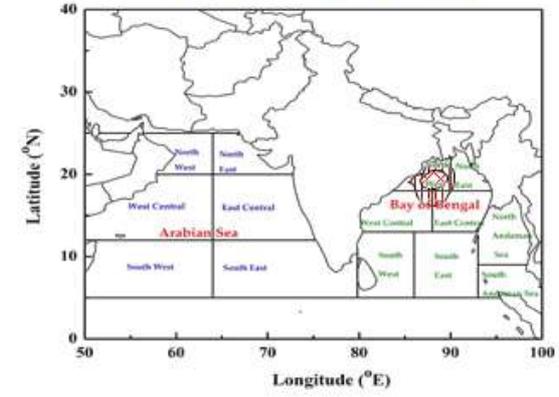
DAY-2: 09.05.2022/0600 UTC TO 10.05.2022/0600 UTC



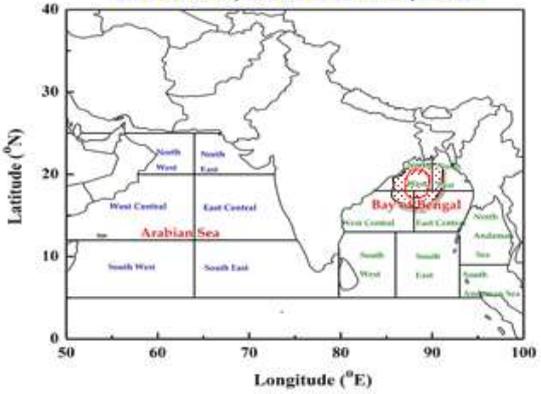
DAY-3: 10.05.2022/0600 UTC TO 11.05.2022/0600 UTC



DAY-4: 11.05.2022/0600 UTC TO 12.05.2022/0600 UTC



DAY-5: 12.05.2022/0600 UTC TO 13.05.2022/0600 UTC



**AREA UNDER FISHERMEN WARNING**

- 40-50 KMPH GUSTING TO 60 KMPH (SQUALLY WEATHER)
- 45-55 KMPH GUSTING TO 65 KMPH
- 50-60 KMPH GUSTING TO 70 KMPH
- 60-70 KMPH GUSTING TO 80 KMPH
- 70-80 KMPH GUSTING TO 90 KMPH
- 90-100 KMPH GUSTING TO 90 KMPH
- 105-115 KMPH GUSTING TO 125 KMPH