



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. 3 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0900 UTC OF 08.05.2022 BASED ON 0600 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 0600 UTC OF TODAY, THE 08<sup>TH</sup> MAY, OVER THE SAME REGION NEAR LATITUDE 11.6°N AND LONGITUDE 88.7°E, ABOUT 530 KM WEST-NORTHWEST OF CAR NICOBAR (43367), 440 KM WEST OF PORT BLAIR (43333), 900 KM SOUTHEAST OF VISAKHAPATNAM (43149) AND 960 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 06 HOURS. IT IS VERY LIKELY TO CONTINUE TO MOVE NORTHWESTWARDS TILL 10<sup>TH</sup> MAY EVENING AND REACH WESTCENTRAL AND 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.

DATE/TIME(UTC)	POSITION	MAXIMUM SUSTAINED	CATEGORY OF CYCLONIC
	(LAT. ⁰N/ LONG.	SURFACE	DISTURBANCE
	⁰E)	WIND SPEED (KMPH)	
08.05.22/0600	11.6/88.7	80-90 GUSTING TO 100	CYCLONIC STORM
08.05.22/1200	12.2/88.2	90-100 GUSTING 110	SEVERE CYCLONIC STORM
08.05.221800	13.1/87.7	95-105 GUSTING 115	SEVERE CYCLONIC STORM
09.05.22/0000	14.1/87.3	105-115 GUSTING TO 125	SEVERE CYCLONIC STORM
09.05.22/0600	14.9/86.8	105-115 GUSTING TO 125	SEVERE CYCLONIC STORM
09.05.22/1800	15.9/86.1	105-115 GUSTING TO 125	SEVERE CYCLONIC STORM
10.05.22/0600	16.8/85.6	95-105 GUSTING TO 115	SEVERE CYCLONIC STORM
10.05.22/1800	17.6/85.3	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
11.05.22/0600	18.2/85.4	80-90 GUSTING TO 100	CYCLONIC STORM

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

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11.05.22/1800	18.6/85.7	70-80 GUSTING TO 90	CYCLONIC STORM
12.05.22/0600	19.1/86.2	60-70 GUSTING TO 80	CYCLONIC STORM
12.05.22/1200	19.3/86.6	50-60 GUSTING TO 70	DEEP DEPRESSION

THE CONVECTION HAS FURTHER ORGANISED. SATELLITE IMAGERY INDICATES RAINBANDS FROM NORTH & WEST PERIPHERY TIGHTLY WRAPPING INTO THE CORE. THE INTENSITY OF THE SYSTEM IS T3.0. 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 & 19.0N AND LONGITUDE 82.5E & 92.5E. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEG C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 40 KNOTS GUSTING TO 50 KNOTS. THE SEA CONDITION IS HIGH TO VERY HIGH OVER SOUTHEAST BAY OF BENGAL & ADJOINING ANDAMAN SEA. THE ESTIMATED CENTRAL PRESSURE IS 996 HPA.

A BUOY LOCATED NEAR 13.3°N/84.2°E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1002.1HPA, SEA SURFACE TEMPERATURE (SST) 30.6°C & MAXIMUM SUSTAINED WIND SPEED (MSW) OF 350°/12KT. ANOTHER BUOY LOCATED NEAR 16.4°N/88.0°E REPORTED MSLP OF 1003.2HPA, 30.5°C & MSW OF 50°/16KT. PORT BLAIR (43333) REPORTED MSLP OF 1004.4HPA, & MSW OF 250°/13KT AND COCO ISLAND (48109) REPORTED MSLP OF 1004.8HPA & MSW OF 230°/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.

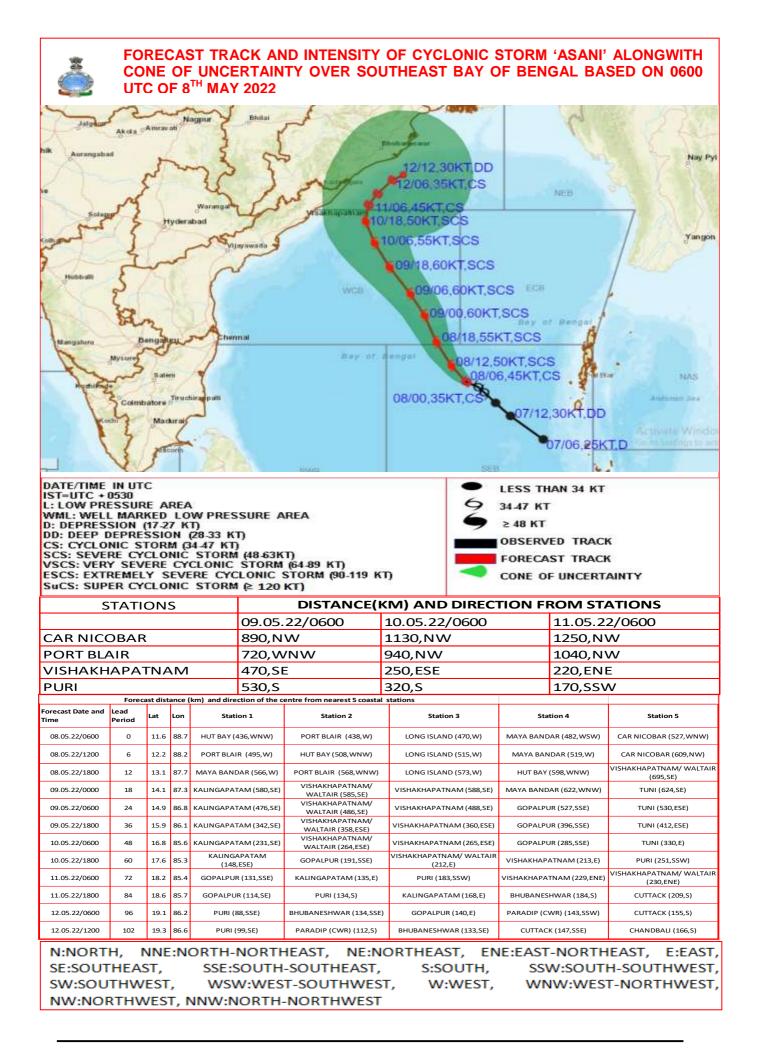
SEA SURFACE TEMPERATURE (SST) IS AROUND 30-31<sup>o</sup>C OVER ENTIRE BOB. THE OCEAN HEAT CONTENT (OHC) IS >100 KJ/CM<sup>2</sup> OVER ENTIRE ANDAMAN SEA, CENTRAL BOB, SOUTH BOB & ADJOINING EIO AND 50-70 KJ/CM<sup>2</sup> OVER NORTHWEST BOB.

LOW LEVEL VORTICITY IS AROUND 150 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 60 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. 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.

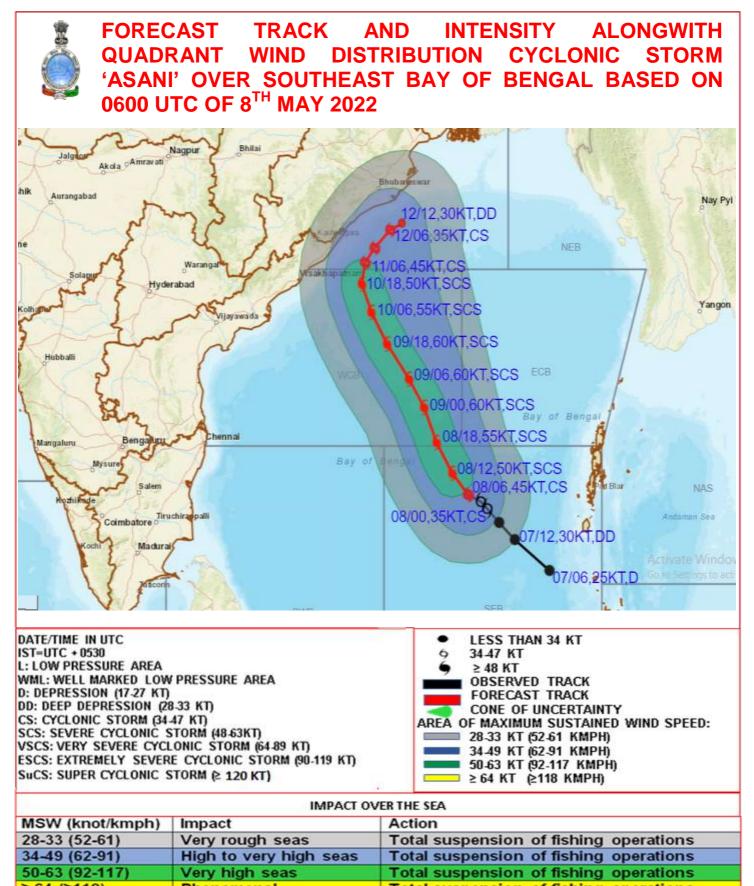
MOST OF THE NUMERICAL MODELS ARE IN GOOD AGREEMENT THAT THE SYSTEM WOULD INTENSIFY INTO A **SEVERE CYCLONIC STORM** OVER EASTCENTRAL BAY OF BENGAL BY 1200 UTC OF 8<sup>TH</sup> MAY. MOST OF THE MODELS ARE ALSO UNANIMOUS THAT THE SYSTEM WOULD MOVE MOVE NORTHWESTWARDS TILL 10<sup>TH</sup> MAY EVENING AND 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 06 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



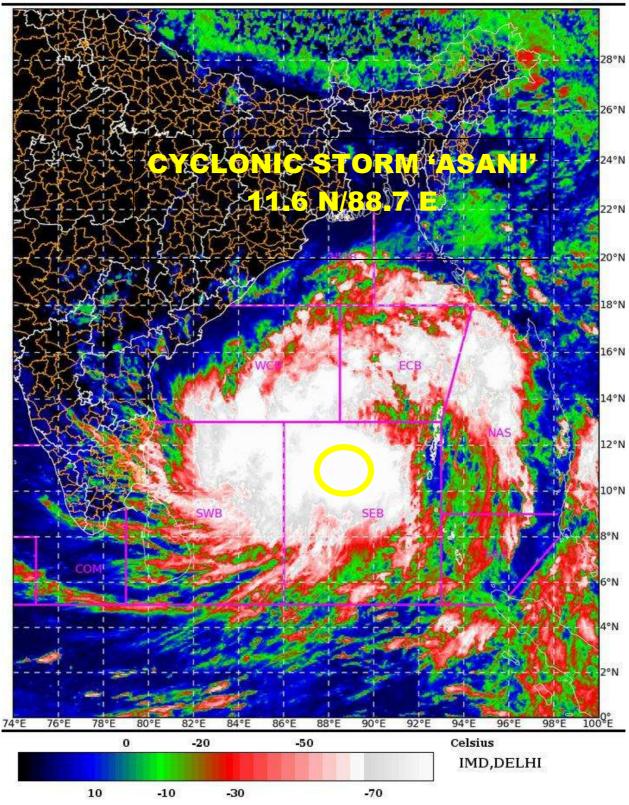
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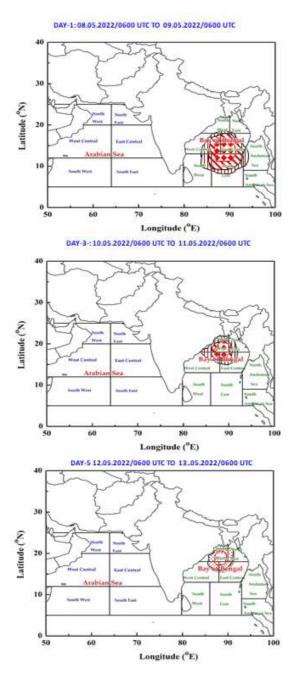
≥ 64 (≥118) Phenomenal Total suspension of fishing operations

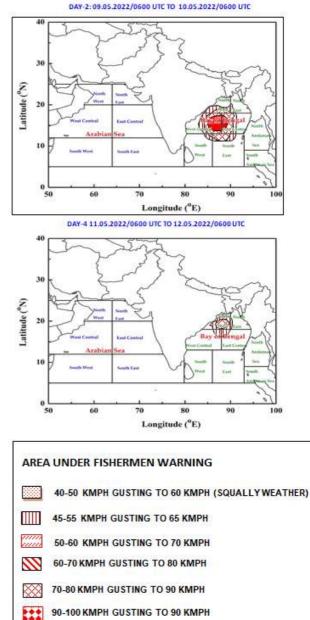
SAT : INSAT-3D IMG IMG\_TIR1\_TEMP 10.8 um L1C Mercator 08-05-2022/(0700 to 0726) GMT 08-05-2022/(1230 to 1256) IST











105-115 KMPH GUSTING TO 125 KMPH