



REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI

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. 14 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1800 UTC OF 09.05.2022 BASED ON 1500 UTC OF 09.05.2022

SUB: SEVERE CYCLONIC STORM 'ASANI' OVER WESTCENTRAL AND ADJOINING SOUTHWEST BAY OF BENGAL

THE **SEVERE CYCLONIC STORM 'ASANI' (PRONOUNCED AS ASANI)** OVER WESTCENTRAL AND ADJOINING SOUTHWEST BAY OF BENGAL MOVED WEST-NORTHWESTWARDS WITH A SPEED OF 12 KMPH DURING PAST 06 HOURS AND LAY CENTERED AT 1500 UTC OF TODAY, THE 09TH MAY, OVER WESTCENTRAL AND ADJOINING SOUTHWEST BAY OF BENGAL NEAR LATITUDE 14.6°N AND LONGITUDE 84.6°E, 360 KM SOUTHEAST OF KAKINADA (43189), 370 KM SOUTH-SOUTHEAST OF VISAKHAPATNAM (43149), 520 KM SOUTH OF GOPALPUR (43049) AND 590 KM SOUTH-SOUTHWEST OF PURI (43053).

IT IS VERY LIKELY TO MOVE NEARLY NORTHWESTWARDS TILL 1800 UTC OF 10TH MAY AND REACH WESTCENTRAL BAY OF BENGAL OFF NORTH ANDHRA PRADESH AND ADJOINING ODISHA COASTS. THEREAFTER, IT IS VERY LIKELY TO RECURVE NORTH-NORTHEASTWARDS AND MOVE TOWARDS NORTHWEST BAY OF BENGAL OFF NORTH ANDHRA PRADESH AND ODISHA COASTS. IT IS LIKELY TO WEAKEN GRADUALLY INTO A CYCLONIC STORM DURING NEXT 24 HOURS.

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

DATE/TIME(UTC)	POSITION (LAT. ⁰N/ LONG. ⁰E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
09.05.22/1500	14.6/84.6	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
09.05.22/1800	14.8/84.3	95-105 GUSTING TO 115	SEVERE CYCLONIC STORM
10.05.22/0000	15.1/84.0	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
10.05.22/0600	15.6/83.8	85-95 GUSTING TO 105	CYCLONIC STORM
10.05.22/1200	16.1/83.4	80-90 GUSTING TO 100	CYCLONIC STORM
11.05.22/0000	17.0/83.6	70-80 GUSTING TO 90	CYCLONIC STORM
11.05.22/1200	17.7/84.0	60-70 GUSTING TO 80	CYCLONIC STORM

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12.05.22/0000	18.3/84.6	50-60 GUSTING TO 70	DEEP DEPRESSION
12.05.22/1200	19.0/85.6	40-50 GUSTING TO 60	DEPRESSION

THE INTENSITY OF THE SYSTEM IS T3.5. CLOUDS ARE ORGANISED IN CDO PATTERN. INSAT-3D IMAGERY INDICATES BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER AREA BETWEEN LATITUDE 9.5N & 15.5N AND LONGITUDE 80.0E & 85.5E. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEG C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 55 KNOTS GUSTING TO 65 KNOTS. THE SEA CONDITION IS VERY HIGH OVER WESTCENTRAL & ADJOINING SOUTH BAY OF BENGAL. THE ESTIMATED CENTRAL PRESSURE IS 988 HPA.

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 2 DAYS WITH AMPLITUDE BECOMING MORE THAN 1. HENCE, MJO WILL SUPPORT ENHANCEMENT OF CONVECTIVE ACTIVITY OVER THE BAY OF BENGAL (BOB) DURING NEXT 3-4 DAYS.

SEA SURFACE TEMPERATURE (SST) IS AROUND 30-31°C OVER ENTIRE BOB. IT DECREASES GRADUALLY TOWARDS THE ANDHRA PRADESH & ODISHA COASTS BECOMING 28°C. THE OCEAN HEAT CONTENT (OHC) IS >100 KJ/CM² OVER WESTCENTRAL & SOUTH BAY OF BENGAL (BOB) BECOMING 50-70 KJ/CM² OVER NORTHWEST BOB & ALONG & OFF ANDHRA PRADESH & ODISHA COASTS AND ADJOINING WESTCENTRAL BOB.

LOW LEVEL VORTICITY HAS INCREASED DURING PAST 3 HOURS AND IS ABOUT 300 X10⁻⁶ S⁻¹ AROUND SYSTEM CENTRE. VERTICALLY IT IS EXTENDING UPTO 200 HPA LEVEL. VORTICITY FIELD IS ORIENTED SOUTH-NORTH INDICATING NORTHWARDS VORTICITY ADVECTION. LEVEL CONVERGENCE IS AROUND 20 X10⁻⁵ S⁻¹ TO THE SOUTHWEST OF SYSTEM CENTRE. UPPER LEVEL DIVERGENCE HAS DECREASED SLIGHTLY AND IS AROUND 10 X10⁻⁵ S⁻¹ TO THE SOUTHWEST OF SYSTEM CENTRE. ANOTHER POSITIVE DIVERGENCE FIELD IS SEEN TO THE NORTHEAST OF SYSTEM AREA. WIND SHEAR IS MODERATE (15-20 KNOTS) AROUND THE SYSTEM AREA. IT IS LIKELY TO BECOME LOW TO MODERATE (10-15 KNOTS) ALONG THE FORECAST TRACK OVER WESTCENTRAL & NORTHWEST BOB. THIS WILL HELP SYSTEM MAINTAIN IT'S INTENSITY FOR SOME TIME. AS THE SYSTEM MOVES FURTHER NORTHWARDS, IT WILL ENCOUNTER LOWER SST & OHC AND HENCE WILL SHOW GRADUAL WEAKENING. THERE IS DECREASE IN WESTWARD OUTFLOW AND INCREASE IN NORTHEAST OUTFLOW DURING PAST 6 HOURS SUPPORTING THE DEVELOPMENT OF A SECONDARY DIVERGENCE ZONE IN THE NORTHEAST SECTOR, IN ADDITION TO THAT IN THE SOUTHWEST SECTOR. THERE WILL BE DRY AIR INCURSION REACHING INTO THE CORE AREA FROM INDIAN LANDMASS AS THE SYSTEM MOVES FURTHER NORTHWARDS. IT WILL HELP IN WEAKENING OF THE SYSTEM. FURTHER IT IS EXPECTED TO TRACK NORTHWESTWARDS FOR SOME TIME AND THEN RECURVE NORTHEASTWARDS FROM 10TH NIGHT WHILE MOVING ALONG THE PERIPHERY OF SUB-TROPICAL RIDGE ASSOCIATED WITH ANTICYCLONIC CIRCULATION OVER THE EASTCENTRAL BOB.

MOST OF THE NUMERICAL MODELS ARE IN GOOD AGREEMENT THAT THE SYSTEM WOULD MOVE NORTHWESTWARDS TILL 1800 UTC OF 10TH MAY AND REACH WESTCENTRAL BAY OF BENGAL OFF NORTH ANDHRA PRADESH AND ADJOINING ODISHA COASTS. THEREAFTER, IT IS VERY LIKELY TO RECURVE NORTH-NORTHEASTWARDS AND MOVE TOWARDS NORTHWEST BAY OF BENGAL OFF NORTH ANDHRA PRADESH AND ODISHA COASTS. IT IS LIKELY TO WEAKEN GRADUALLY INTO A CYCLONIC STORM DURING NEXT 24 HOURS.

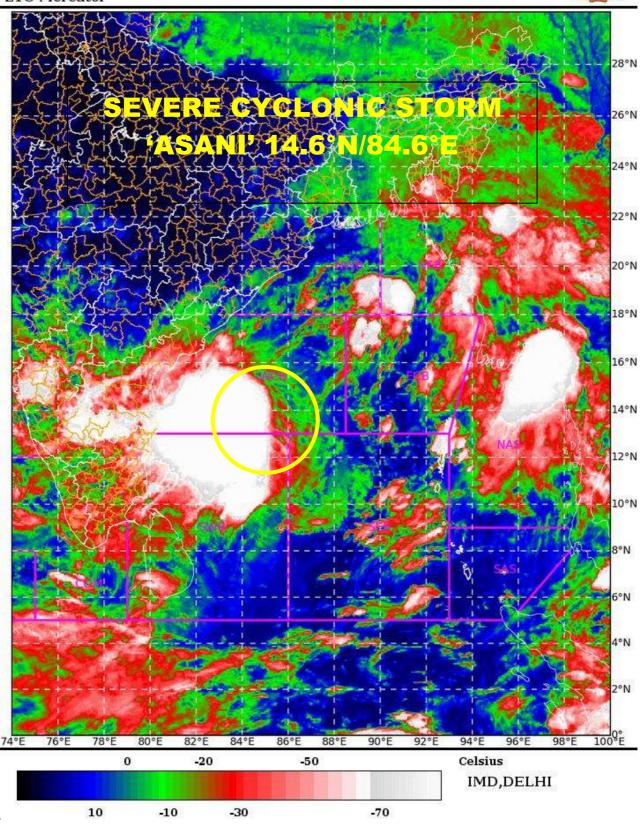
> (SHASHI KANT) Scientist-C, RSMC, New Delhi

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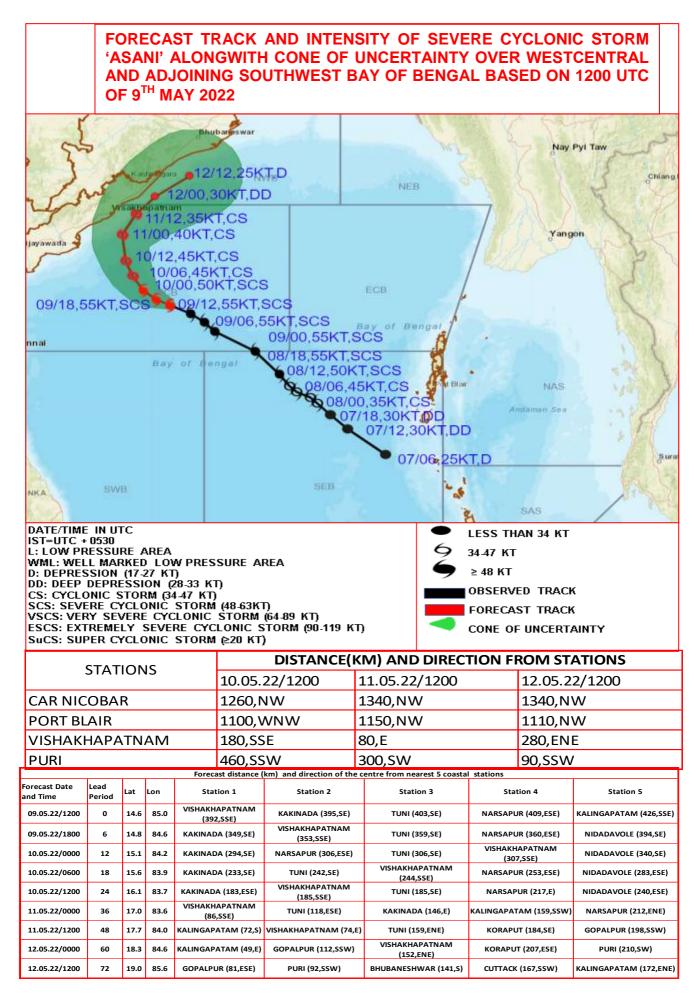
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09-05-2022/(1600 to 1626) GMT 09-05-2022/(2130 to 2156) IST



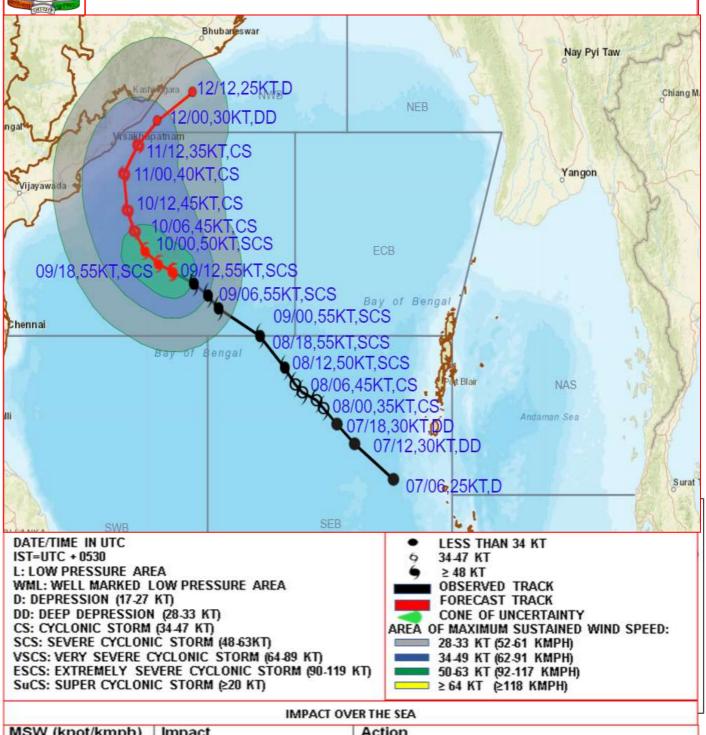


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	WSW (Knot/Kmpn)	Impact	Action	
	28-33 (52-61)	Very rough seas	Total suspension of fishing operations	1
	34-49 (62-91)	High to very high seas	Total suspension of fishing operations	1
	50-63 (92-117)	Very high seas	Total suspension of fishing operations	1
тн	≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations	letins
				Hound