



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. 27 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0900 UTC OF 11.05.2022 BASED ON 0600 UTC OF 11.05.2022

Sub: Cyclonic Storm 'ASANI' over Westcentral Bay of Bengal - CYCLONE WARNING for Andhra Pradesh coast (Red Message)

THE CYCLONIC STORM 'ASANI' (PRONOUNCED AS ASANI) OVER WESTCENTRAL BAY OF BENGAL MOVED NORTH-NORTHEASTWARDS WITH A SPEED OF 6 KMPH DURING PAST 06 HOURS, AND LAY CENTERED AT 0600 UTC OF 11TH MAY, OVER SAME REGION NEAR LATITUDE 16.0°N AND LONGITUDE 81.5°E, ABOUT 40 KM EAST-SOUTHEAST OF MACHILIPATNAM (43185), 130 KM SOUTHWEST OF KAKINADA (43189), 270 KM SOUTHWEST OF VISAKHAPATNAM (43149), 500 KM SOUTHWEST OF GOPALPUR (43049) AND 620 KM SOUTHWEST OF PURI (43053).

IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS ALONG NARSAPUR, YANAM, KAKINADA, TUNI & VISAKHAPATNAM COASTS TILL 12UTC OF TODAY AND EMERGE INTO WESTCENTRAL BAY OF BENGAL OFF NORTH ANDHRA PRADESH COASTS BY 1800 UTC OF TODAY. IT IS LIKELY TO WEAKEN FURTHER INTO A DEPRESSION BY 0000 UTC OF 12TH MAY.

THE CYCLONIC STORM IS UNDER THE CONTINUOUS SURVEILLANCE OF DOPPLER WEATHER RADAR (DWR) AT MACHILIPATNAM (43185).

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

Date/Time(IST)	Position (Lat. ⁰N/ long. ⁰E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
11.05.22/0600	16.0/81.5	70-80 GUSTING TO 90	CYCLONIC STORM
11.05.22/1200	16.5/81.9	65-75 GUSTING TO 85	CYCLONIC STORM
11.05.22/1800	16.9/82.6	55-65 GUSTING TO 75	DEEP DEPRESSION
12.05.22/0000	17.1/83.3	45-55 GUSTING TO 65	DEPRESSION

THE INTENSITY OF THE SYSTEM IS T2.5/3.0. INSAT-3D IMAGERY INDICATES BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER AREA BETWEEN LATITUDE 14.0N & 16.0N AND LONGITUDE 78.5E & 81.5E, RAYALSEEMA, SOUTH COASTAL ANDHRA PRADESH & ADJOINING NORTHEAST TAMILNADU. 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 OVER WESTCENTRAL BAY OF BENGAL. THE ESTIMATED CENTRAL PRESSURE IS 993 HPA.

STORM SURGE GUIDANCE: STORM SURGE OF HEIGHT ABOUT 0.5 M ABOVE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE LOW LYING AREAS OF KRISHNA, EAST & WEST GODAVARI DISTRICTS OF ANDHRA PRADESH AND YANAM DISTRICT OF PUDUCHERRY.

REMARKS:

THE MADDEN JULIAN OSCILLATION INDEX (MJO) CURRENTLY LIES IN PHASE 5 WITH AMPLITUDE MORE THAN 1. IT WOULD MOVE TO PHASE 6 ON 12TH MAY. HENCE, MJO WILL SUPPORT ENHANCEMENT OF CONVECTIVE ACTIVITY OVER THE BAY OF BENGAL (BOB) DURING NEXT 1-2 DAYS.

SEA SURFACE TEMPERATURE (SST) IS AROUND 29°C OVER WESTCENTRAL BOB ALONG & OFF ANDHRA PRADESH AND ALONG THE FORECAST TRACK. 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 DECREASED AND IS ABOUT 150 X10-6 S-1 TO THE SOUTH OF SYSTEM CENTRE. VERTICALLY IT IS EXTENDING UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE HAS ALSO DECREASED TO 10 X10-5 S-1 AROUND THE SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS 05 X10-5 S-1 AROUND AND TO THE NORTHEAST OF SYSTEM CENTRE. WIND SHEAR IS LOW (10-15 KNOTS) AROUND THE SYSTEM AREA AND ALSO ALONG THE FORECAST TRACK. THE SYSTEM HAS COME CLOSE TO COAST AND DUE TO LAND INTERACTIONS WILL WEAKEN GRADUALLY. ALSO AS THE SYSTEM MOVES FURTHER NORTH-NORTHEASTWARDS, IT WILL ENCOUNTER LOWER SST, LOWER OHC AND HENCE WILL SHOW GRADUAL WEAKENING. IT IS LIKELY TO RECURVE NORTHEASTWARDS AND MOVE ALONG ANDHRA PRADESH COAST FOR NEXT 12 HOURS AND THEN EMERGE INTO WESTCENTRAL BAY OF BENGAL.

(SHASHI KANT) SCIENTIST-C, RSMC, NEW DELHI SAT : INSAT-3D IMG IMG_TIR1_TEMP 10.8 um L1C Mercator 11-05-2022/(0730 to 0756) GMT 11-05-2022/(1300 to 1326) IST



28°N 26°N 24°N 22°N 20°N 18°N 16°N 14°N 12°N 10°N 8°N 6°N 4°N 2°N 100°E 96°E 84°E 92°E 94°E 98°E 74°E 76°E 78°E 80°E 82°E 86°E 88°E 90°E Celsius 0 -20 -50 IMD, DELHI 10 -10 -30 -70

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CYCLONIC STORM "ASANI" VIEWED BY THE DWR AT MACHILIPATNAM



FORECAST TRACK AND INTENSITY OF CYCLONIC STORM 'ASANI' ALONGWITH CONE OF UNCERTAINTY OVER WESTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 11TH MAY 2022

McSanabad Karlinnagor Vitrongal Telangana Hijderabad Otaregan	Vangenn Politogetnan 0.25KTD	NEB
11/12,35KT 05 11/12,35KT 05 11/12 0000 11/12,35KT 05 11/10 0000 10/08,50KT,SCS 10/12,50 10/06,55KT,SCS	30KT DD KT,SCS 09/18.55KT,SCS	EGB
Medanipate Bodan Medanipate Roban Jalum Agger Celore Ket-Steparan	09/12,55KT,SCS 09/06,55KT,SCS 09/00,55KT,SCS 08	Bay of Bengar
Solern Corral franke Terrolini angulat Terrolini angulat Terrolini angulat	Bay of Beegar 08/12,50KT,SC 08	S 08/06,45KT,CS 07/18,30KT,DD
Markara Beform		07/12,30KT.DD Settivate Windows 07/06,25KT.D
DATE/TIME IN UTC IST=UTC + 0530 L: LOW PRESSURE AREA WML: WELL MARKED LOW PRESSURE & D: DEPRESSION (17-27 KT) DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (24-47 KT)	REA	 LESS THAN 34 KT 34.47 KT ≥ 48 KT OBSERVED TRACK

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 (2 120 KT)

11.05.22/0600 0 11.05.22/1200 6	16.0	81.5	MACHILIPATNAM/				
11 05 22/1200 6			FRANCHPET (44,ESE)	NARSAPUR (53,SSW)	NIDADAVOLE (93,S)	VIJAYAWADA /GANNAVARAM (96,SE)	VUAYAWADA (111,ESE
11.05.22/1200	16.5	81.9	NARSAPUR (23,ENE)	NIDADAVOLE (50,SE)	KAKINADA (61,SW)	MACHILIPATNAM/ FRANCHPET (87,ENE)	TUNI (117,SW)
11.05.22/1800 12	16.9	82.6	KAKINADA (39,E)	TUNI (50,S)	NIDADAVOLE (109,E)	NARSAPUR (109,ENE)	VISHAKHAPATNAM (117,SW)
12.05.22/0000 18	17.1	83.3	VISHAKHAPATNAM (69,S)	TUNI (84,ESE)	KAKINADA (115,E)	KALINGAPATAM (163,SSW)	NIDADAVOLE (185,E)

FORECAST TRACK

CONE OF UNCERTAINTY

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FORECAST TRACK AND INTENSITY ALONGWITH QUADRANT WIND DISTRIBUTION CYCLONIC STORM 'ASANI' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 11TH MAY 2022



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FISHERMEN WARNING GRAPHICS

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



STORM SURGE HEIGHT INFORMATION: * The below listed surge heights are over and above astronomical tide.

MANDAL/TALUK	DISTRICT	STATE / UNION	NEAREST PLACE	STORM SURGE	EXPECTED
		TERRITORY	OF HABITATION	(m)	INUNDATION
				*	EXTENT (km)
Kakinada	East Godavari	Andhra Pradesh	P. Mallavaram	0.2-0.5	Upto 0.11
Machilipatnam	Krishna	Andhra Pradesh	Pedapatnam	0.2-0.5	Upto 0.12
Razole	East Godavari	Andhra Pradesh	Bendamurulanka	0.3-0.4	Upto 0.19
Mummidivaram	East Godavari	Andhra Pradesh	Katrenikona	0.2-0.3	Nil
Yanam	Yanam	Puducherry	Yanam	0.2-0.3	Upto 0.11



Storm Surge Guidance