



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. 26 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0600 UTC OF 11.05.2022 BASED ON 0300 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 0300 UTC OF 11TH MAY, OVER SAME REGION NEAR LATITUDE 15.9°N AND LONGITUDE 81.4°E, ABOUT 40 KM SOUTHEAST OF MACHILIPATNAM (43185), 140 KM SOUTHWEST OF KAKINADA (43189), 280 KM SOUTHWEST OF VISAKHAPATNAM (43149), 520 KM SOUTHWEST OF GOPALPUR (43049) AND 630 KM SOUTHWEST OF PURI (43053).

IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS ALONG NARSAPUR, YANAM, KAKINADA, TUNI & VISAKHAPATNAM COASTS TILL 1200 UTC 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).

DATE/TIME(UTC)	POSITION (LAT. ⁰N/ LONG. ⁰E)	IAXIMUM SUSTAINED SURFAC WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
11.05.22/0300	15.9/81.4	75-85 GUSTING TO 95	CYCLONIC STORM
11.05.22/0600	16.2/81.6	70-80 GUSTING TO 90	CYCLONIC STORM
11.05.22/1200	16.5/82.0	65-75 GUSTING TO 85	CYCLONIC STORM
11.05.22/1800	16.8/82.6	55-65 GUSTING TO 75	DEEP DEPRESSION
12.05.22/0000	17.1/83.3	45-55 GUSTING TO 65	DEPRESSION

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

THE INTENSITY OF THE SYSTEM IS T3.0/3.0. INSAT-3D IMAGERY INDICATES BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER AREA BETWEEN LATITUDE 13.0N & 16.5N AND LONGITUDE 80.0E & 83.0E, RAYALSEEMA, SOUTH COASTAL ANDHRA PRADESH & ADJOINING NORTHEAST TAMILNADU. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEG C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. THE SEA CONDITION IS HIGH OVER WESTCENTRAL BAY OF BENGAL. THE ESTIMATED CENTRAL PRESSURE IS 992 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.

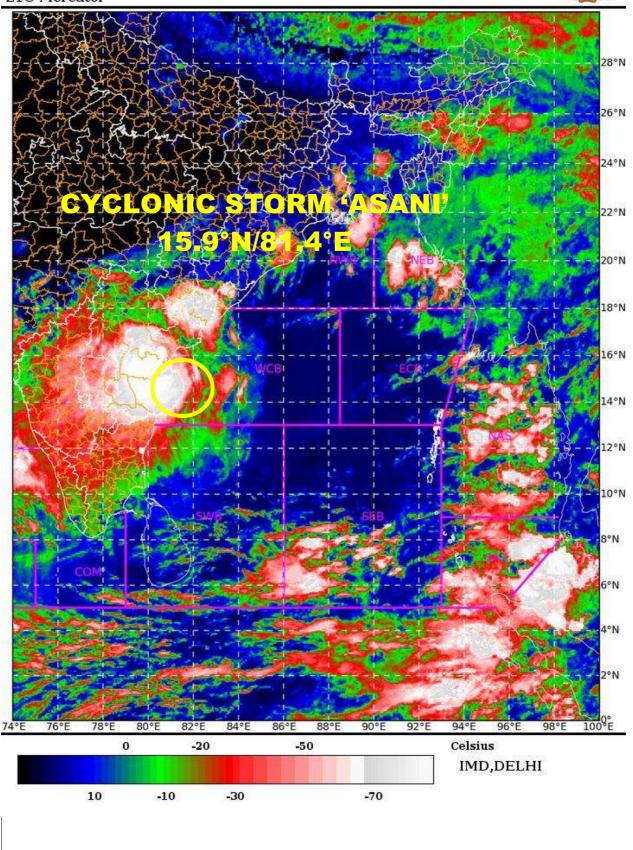
SEA SURFACE TEMPERATURE (SST) IS AROUND 29°C OVER WESTCENTRAL BOB ALONG & OFF ANDHRA PRADESH AND ALONG THE FORECAST TRACK. THE OCEAN HEAT CONTENT (OHC) IS >100 KJ/CM² OVER WESTCENTRAL & SOUTH BAY OF BENGAL (BOB) BECOMING 50-70 KJ/CM2 OVER NORTHWEST BOB & ALONG & OFF ANDHRA PRADESH & ODISHA COASTS AND ADJOINING WESTCENTRAL BOB.

LOW LEVEL VORTICITY IS ABOUT 200 X10-6 S-1 TO THE SOUTH OF SYSTEM CENTRE. VERTICALLY IT IS EXTENDING UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE IS AROUND 20 X10-5 S-1 TO THE SOUTHWEST OF SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS 05 X10-5 S-1 AROUND AND TO THE NORTHEAST OF SYSTEM CENTRE. WIND SHEAR IS LOW (15-20 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.

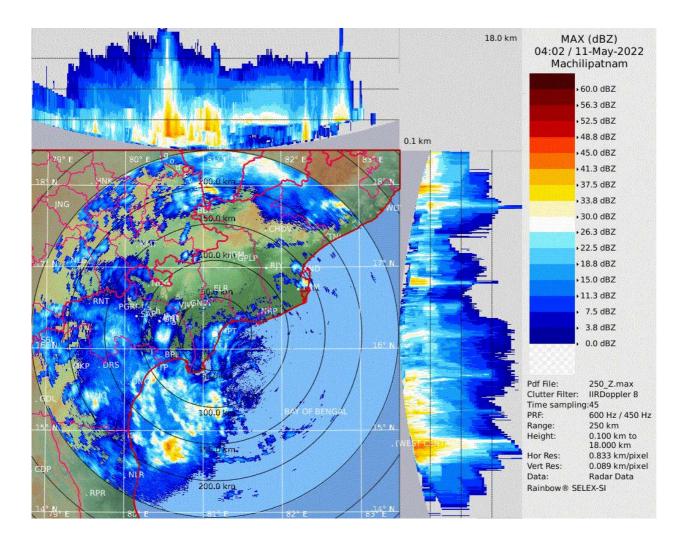
> (MONICA SHARMA) SCIENTIST-D, RSMC, NEW DELHI

11-05-2022/(0330 to 0356) GMT 11-05-2022/(0900 to 0926) IST

SAT : INSAT-3D IMG IMG_TIR1_TEMP 10.8 um L1C Mercator



CYCLONIC STORM "ASANI" VIEWED BY THE DWR AT MACHILIPATNAM



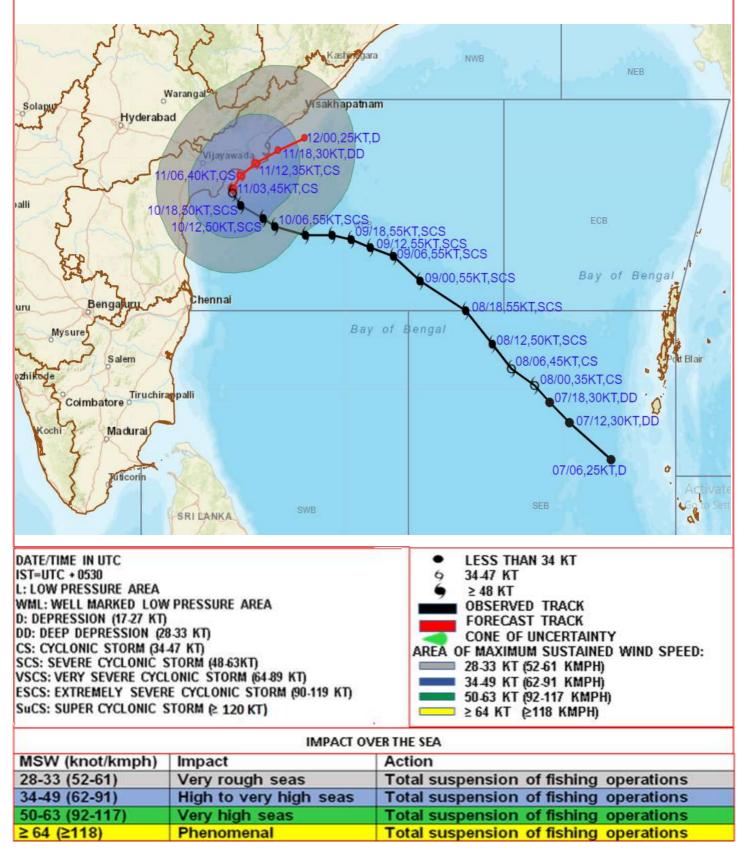


FORECAST TRACK AND INTENSITY OF CYCLONIC STORM 'ASANI' ALONGWITH CONE OF UNCERTAINTY OVER WESTCENTRAL BAY OF BENGAL BASED ON 0300 UTC OF $11^{\rm TH}$ MAY 2022

solaput	want -	Ty and the second secon	deraba	Vijayawi	1703	Kashingara Visakhapatham 12/00,25KT,D 11/18,30KT,CD 1/12,35KT,CS 45KT,CS	3.55KT,SC	NWB	ECB	NEB
2 St	3 m			(~		Bay o	Bengal
Dr. Co	J'S	2	V	A.			09/	00,55KT,S	US Dary D	f Bengal
galuru	Beng	alup	wow	Chennai				08/1	55KT,SCS	1
DATE/TIME IST=UTC +	Coimbate	Madu polico C	rat	spalli SRI LANKA		B a y	of Benga	•	08/12,50KT,SCS 08/06,45KT,CS 07/18,30KT, 07/12,30 07/06,25KT, 8EB	DD OKT,DD
L: LOW PR					_			9	34.47 KT	
WML: WEL D: DEPRES					e Al	REA		9	≥ 48 KT	
DD: DEEP	DEPRE	SSI	ON (2	8-33 KT)						(
CS: CYCLO SCS: SEVE	CS: CYCLONIC STORM (34.47 KT)									
VSCS: VER	Y SEV	ERE	CYC	LONIC STO	RM	(64-89 KT)			FORECAST TRACK	
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT) CONE OF UNCERTAINTY SuCS: SUPER CYCLONIC STORM (2 120 KT)										
Ju 00, 001				er er um (= 1		2			CTION FROM	STATIONS
	STA	ГIС	NS			.05.22/0000	-,			
MACHIL			λM			O,ENE				
KAKINA VISHAK		AT	NAN	Л		110,E 70,S				
GOPALPUR					29	290,SW				
Forecast Date	Lead	_	_	Forecast dis	tance	km) and direction of the c	entre from ne	arest 5 coasta	l stations	
and Time	Period	Lat	Lon	Station 1		Station 2	Stati	on 3	Station 4	Station 5
11.05.22/0300	0	15.9	81.4	MACHILIPATN FRANCHPET (43	•	NARSAPUR (67,SSW)		WADA RAM (95,SE)	BAPATLA (100,E)	NIDADAVOLE (106,S)
11.05.22/0600	3	16.2	81.6	NARSAPUR (28,		MACHILIPATNAM/ FRANCHPET (48,E)		OLE (71,S)	VIJAYAWADA /GANNAVARAM (93,ESE)	KAKINADA (107,SW)
11.05.22/1200	9	16.5	82.0	NARSAPUR (33,	ENE)	KAKINADA (56,SSW)	NIDADAVO	DLE (58,SE)	MACHILIPATNAM/	TUNI (111,SSW)
11.05.22/1800	15	16.8	82.6	KAKINADA (42,ESE)		TUNI (61,S)	NARSAPUR (104,ENE)		FRANCHPET (97,ENE) NIDADAVOLE (108,E)	
12.05.22/0000	12,05,22/0000 21 17.1 83.3 VISHAKHAPATNAM TUNI (84,ESE) KAKINADA (115.E) KALINGAPATAM (163,SSW) NIDADAVOLE (185						(126,SW) NIDADAVOLE (185,E)			
N : NO ESE : SSW :	EAST SOUT	VNE -SO TH-S	OUTH SOUT	IEAST SE THWEST	sw	HEAST NE : NO SOUTHEAST	RTHEAS SSE : T WSW	ST ENE SOUTI V : WE	: EAST-NORTHE H-SOUTHEAST IST-SOUTHWEST	AST E : EAST S : SOUTH



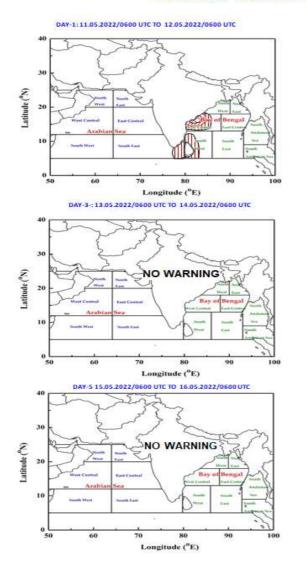
FORECAST TRACK AND INTENSITY ALONGWITH QUADRANT WIND DISTRIBUTION CYCLONIC STORM 'ASANI' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0300 UTC OF 11TH MAY 2022

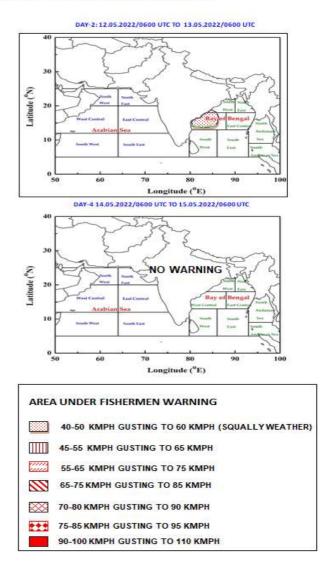


This is a guidance Bulletin for the WMO/ESCAP Panel Member countries,. Please visit respective National websites for Country specific Bulletins

FISHERMEN WARNING GRAPHICS

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



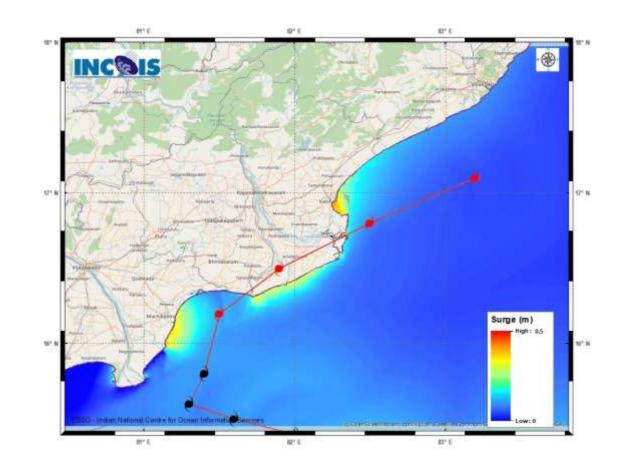


This is a guidance Bulletin for the WMO/ESCAP Panel Member countries,. Please visit respective National websites for Country specific Bulletins

STORM SURGE HEIGHT INFORMATION:

MANDAL/TALUK	DISTRICT	STATE / UNION TERRITORY	NEAREST PLACE OF HABITATION	STORM SURGE (m) *	EXPECTED 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	0.3-0.4	Upto 0.11

* The below listed surge heights are over and above astronomical tide.



Storm Surge Guidance