



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

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 04.03.2022

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0900 UTC OF 04.03.2022 BASED ON 0600 UTC OF 04.03.2022.

DEPRESSION OVER SOUTHWEST BAY OF BENGAL

THE DEPRESSION OVER SOUTHWEST BAY OF BENGAL MOVED NORTH-NORTHWESTWARDS WITH A SPEED OF ABOUT 15 KMPH DURING LAST 06 HOURS AND LAY CENTERED AT 0600 UTC OF TODAY, THE 4TH MARCH 2022, OVER THE SAME REGION NEAR LATITUDE 9.2°N AND LONGITUDE 82.8°E, ABOUT 180 KM EAST-NORTHEAST OF TRINCOMALEE (43418), 370KM EAST-SOUTHEAST OF NAGAPPATTINAM (43347), 440 KM SOUTHEAST OF PUDUCHERRY (43331) AND ABOUT 500 KM SOUTH-SOUTHEAST OF CHENNAI (43279).

IT IS LIKELY TO INTENSIFY FURTHER INTO A DEEP DEPRESSION DURING NEXT 12 HOURS. IT IS LIKELY TO MOVE NORTH-NORTHWESTWARDS OFF EAST COAST OF SRI LANKA TILL 5TH MARCH MORNING AND THEN MOVE WEST-NORTHWESTWARDS TOWARDS NORTH TAMIL NADU COAST DURING SUBSEQUENT 48 HOURS.

DATE/TIME(UTC)	Forecast Lead Period	POSITION (LAT. ⁰N/ LONG. ⁰E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
04.03.22/0600	00	9.2 /82.8	45-55 gusting to 65	Depression
04.03.22/1800	12	10.1/82.4	50-60 gusting to 70	Deep Depression
05.03.22/0600	24	10.7/82.0	50-60 gusting to 70	Deep Depression
05.03.22/1800	36	11.0/81.5	45-55 gusting to 65	Depression
06.03.22/0000	48	11.1/81.0	40-50 gusting to 60	Depression

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

THE INTENSITY OF THE SYSTEM IS T1.5. ASSOCIATED BROKEN LOW/MED CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER AREA BET LAT 6.0° N & 16.5° N AND LONG 80°E TO 88.5°E & SRILANKA. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 82 DEG C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. THE SEA CONDITION IS ROUGH TO VERY ROUGH OVER SOUTHWEST BAY OF BENGAL AND ADJOINING WESTCENTRAL BAY OF BENGAL. THE ESTIMATED CENTRAL PRESSURE IS 1004 HPA.

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REMARKS:

SEA SURFACE TEMPERATURE IS AROUND 28-29⁰C OVER SOUTHWEST AND WESTCENTRAL BOB. TROPICAL CYCLONE HEAT POTENTIAL IS AROUND 60-80 KJ/CM² OVER THE SAME REGION. THE MADDEN JULIAN INDEX (MJO) CURRENTLY LIES IN PHASE 5 WITH AMPLITUDE LESS THAN 1. IT IS LIKELY TO CONTINUE IN THE SAME PHASE FOR NEXT 2-3 DAYS WITH AMPLITUDE REMAINING LESS THAN 1. THE PHASE OF MJO IS CONDUCIVE FOR ENHANCED CONVECTION DURING NEXT 2-3 DAYS.

LOW LEVEL VORTICITY IS AROUND 200 X10⁻⁶ S⁻¹ AROUND THE SYSTEM CENTRE. VERTICALLY, IT IS EXTENDING UPTO 500 HPA LEVEL. LOW LEVEL CONVERGENCE IS AROUND 20 X10⁻⁵ S⁻¹ OVER THE SYSTEM CENTRE. UPPER LEVEL DIVERGENCE HAS IS ABOUT 30 X10⁻⁵ S⁻¹ TO THE NORTHWEST OF SYSTEM CENTRE. WIND SHEAR IS MODERATE TO HIGH (15-25 KNOTS) AROUND THE SYSTEM CENTRE AND INCREASES WESTWARDS TOWARDS TAMILNADU COAST.

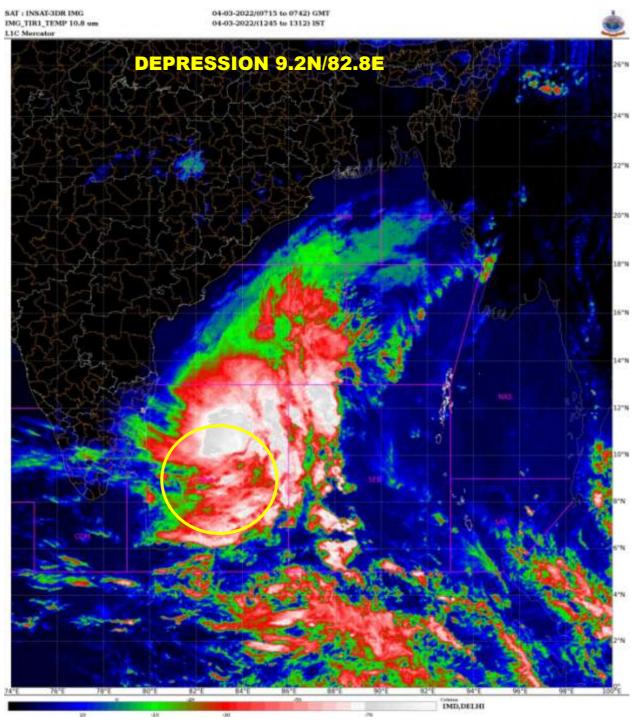
UPPER TROPOSPHERIC RIDGE RUNS ALONG LAT 13DEGN TO THE NORTH OF SYSTEM AREA. HENCE, EAST SOUTH-EASTERLY WINDS PERSIST OVER THE SYSTEM REGION. ASCAT WINDS SUGGEST 25-30 KTS WINDS IN THE NORTHERN SECTOR OF THE DEPRESSION.

MOST OF THE NUMERICAL MODELS INCLUDING IMD GFS, ECMWF, GEFS, NCUM (G), IMD MME, NCUM (R) AND ECMWF ENSEMBLE ARE INDICATING SLIGHT INTENSIFICATION OF THE SYSTEM DURING NEXT 12 HOURS. HOWEVER, MODELS ARE UNANIMOUS IN MOVEMENT OF THE SYSTEM TOWARDS NORTH TAMILNADU COAST DURING NEXT 48 HOURS.

IN VIEW OF ALL THE ABOVE, IT IS INFERRED THAT THE DEPRESSION OVER SOUTHWEST BOB IS LIKELY TO INTENSIFY MARGINALLY DURING NEXT 12 HOURS INTO A DEEP DEPRESSION AND MOVE NORTHWESTWARDS OFF EAST COAST OF SRILANKA TOWARDS NORTH TAMILNADU COAST DURING NEXT 48 HOURS.

THE NEXT BULLETIN WILL BE ISSUED AT 1500 UTC OF TODAY, THE 04TH MARCH, 2022.

(M. SHARMA) SCIENTIST-D RSMC NEW DELHI



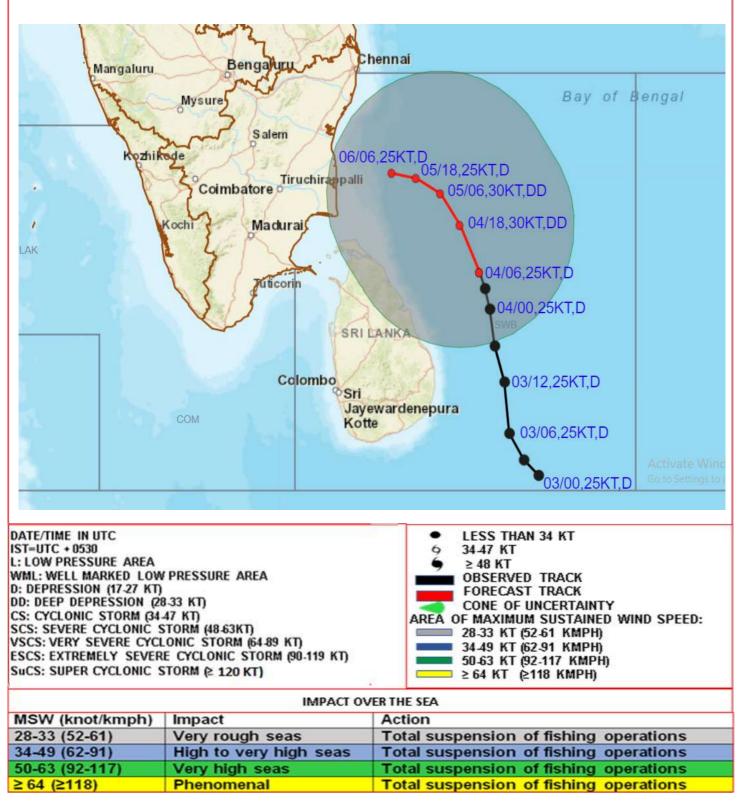
OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER SOUTHWEST BAY OF BENGAL BASED ON 0600 UTC OF 4th MARCH, 2022

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	com	G	teorin s	RI CA		04/	30KT,DD 18,30KT,DD 04/06,25KT,D 04/00,25KT, 003/12,25K 03/06,25	T,D
ATE/TIME IN UTC iT-UTC + 0530 : LOW PRESSURE A (ML: WELL MARKED : DEPRESSION (17-2 D: DEEP DEPRESSIO S: CYCLONIC STOR CS: SEVERE CYCLO SCS: VERY SEVERE SCS: EXTREMELY S uCS: SUPER CYCLO	LOW F 7 KT) N (28-3 M (34-47 NIC ST CYCLO EVEDE	33 KT) 7 KT) ORM (48-63K NIC STORM	Т) (64-89 КТ) 57.0 рм /00.119	і ктј		2;	ESS THAN 34 K 4-47 KT 48 KT 9BSERVED TRAG ORECAST TRAG CONE OF UNCER	ск
STATIONS		DISTANCE (KM) AND DIRECT					N FROM STAT	TIONS
		04.03.22/0600		(05.03.22/0600		06.03.22/0600	
TRINCOMALEE		180,ENE			250,NNE		280,N	
NAGAPATTINA		370,ESE			240,E		130,ENE	
PUDUCHERRY CHENNAI		450,SE 570,SSE			280,ESE 380,SSE		160,SE 300,SSE	
								-
					Station		Station 4	Station 5
Forecast dist	Stat	ion 1	Station 2		Junion			
Forecast dist Date/ Time(UTC)	Stat Tring	ion 1 comalee ,ENE)	Batticloa (200,NE)		Kankasi (310,ES		Mannar (320,E)	Vedaranyam (350,ESE)
Forecast dist Date/ Time(UTC) 04.03.22/0600	Stat Tring (180 Batt	comalee	Batticloa	rai	Kankas	E)		
Forecast dist Date/ Time(UTC) 04.03.22/0600 04.03.22/1800	Stat Tring (180 Batt (210 Kank	comalee ,ENE) icloa	Batticloa (200, NE) Kankasantu	rai	Kankas (310,ES Manna	E) r IE) nyam	(320,E) Vedaranyam	(350,ESE) Puttalam
Forecast dist Date/ Time(UTC) 04.03.22/0600 04.03.22/1800 05.03.22/0600	Stat Tring (180 Batt (210 Kank (230 Man	comalee ,ENE) icloa ,NNE) (asanturai ,ENE)	Batticloa (200, NE) Kankasantu (260, E) Mannar	rai D	Kankas (310,ES Manna (280,EN Vedara	E) r IE) nyam m	(320,E) Vedaranyam (280,E) Puttalam	(350,ESE) Puttalam (290,NE) Ramalanka
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OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER SOUTHWEST BAY OF BENGAL BASED ON 0600 UTC OF 4th MARCH, 2022



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Fishermen Warning for North Indian Ocean

INDIA METEOROLOGICAL DEPARTMENT

FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA

