



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

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 07.06.2023

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. 8 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1130 UTC OF 07.06.2023 BASED ON 0900 UTC OF 07.06.2023

SUB: VERY SEVERE CYCLONIC STORM "BIPARJOY" (PRONOUNCED AS "BIPORJOY") OVER EASTCENTRAL ARABIAN SEA

THE VERY SEVERE CYCLONIC STORM "**BIPARJOY**" (**PRONOUNCED AS** "**BIPORJOY**") OVER EASTCENTRAL AND ADJOINING SOUTHEAST ARABIAN SEA MOVED NEARLY NORTHWARDS WITH A SPEED OF 7 KMPH DURING LAST 6 HOURS AND LAY CENTERED AT 0900UTC OF TODAY, THE 07TH JUNE, 2023 OVER EASTCENTRAL ARABIAN SEA NEAR LATITUDE 13.1°N AND LONGITUDE 66.3 °E, ABOUT 850 KM WEST-SOUTHWEST OF GOA(43192), 950 KM SOUTHWEST OF MUMBAI(43057), 1010 KM SOUTH-SOUTHWEST OF PORBANDAR(42830) AND 1310 KM SOUTH OF KARACHI(41780).

IT WOULD MOVE NEARLY NORTHWARDS DURING NEXT 24 HOURS AND THEN NORTH-NORTHWESTWARDS DURING SUBSEQUENT 3 DAYS.

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	Date/Time(UTC)	Position	Maximum sustained surface	Category of cyclonic			
		(Lat. ⁰N/ long. ⁰E)	wind speed (Kmph)	disturbance			
	07.06.23/0900	13.1/66.3	115-125 gusting to 140	Very Severe Cyclonic Storm			
	07.06.23/1200	13.3/66.3	120-130 gusting to 145	Very Severe Cyclonic Storm			
	07.06.23/1800	13.7/66.2	125-135 gusting to 150	Very Severe Cyclonic Storm			
	08.06.23/0000	14.0/66.1	130-140 gusting to 155	Very Severe Cyclonic Storm			
	08.06.23/0600	14.3/66.0	135-145 gusting to 160	Very Severe Cyclonic Storm			

Forecast track and intensity are given below:

08.06.23/1800	14.9/65.8	135-145 gusting to 160	Very Severe Cyclonic Storm
09.06.23/0600	15.5/65.5	145-155 gusting to 170	Very Severe Cyclonic Storm
09.06.23/1800	16.1/65.2	145-155 gusting to 170	Very Severe Cyclonic Storm
10.06.23/0600	16.7/64.9	145-155 gusting to 170	Very Severe Cyclonic Storm
10.06.23/1800	17.4/64.5	135-145 gusting to 160	Very Severe Cyclonic Storm
11.06.23/0600	18.2/64.0	130-140 gusting to 155	Very Severe Cyclonic Storm
11.06.23/1800	18.9/63.6	125-135 gusting to 150	Very Severe Cyclonic Storm
12.06.23/0600	19.5/63.1	120-130 gusting to 145	Very Severe Cyclonic Storm

AS PER INSAT 3D IMAGERY INTENSITY OF THE SYSTEM IS T 4.0. ASSOCIATED SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER CENTRAL AND ADJOINING SOUTH ARABIAN SEA BETWEEN LATITUDE 10.5N & 15.0N LONGITUDE 61.5E & 66.5E. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93DEG C. AS PER MULTISAT WINDS, STRONGER WINDS ARE SEEN IN THE SOUTHEAST SECTOR.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED IS 65 KNOTS GUSTING TO 75 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 983 HPA. SEA CONDITION IS LIKELY TO BE PHENOMENAL OVER EASTCENTRAL AND ADJOINING EASTCENTRAL ARABIAN SEA.

REMARKS:

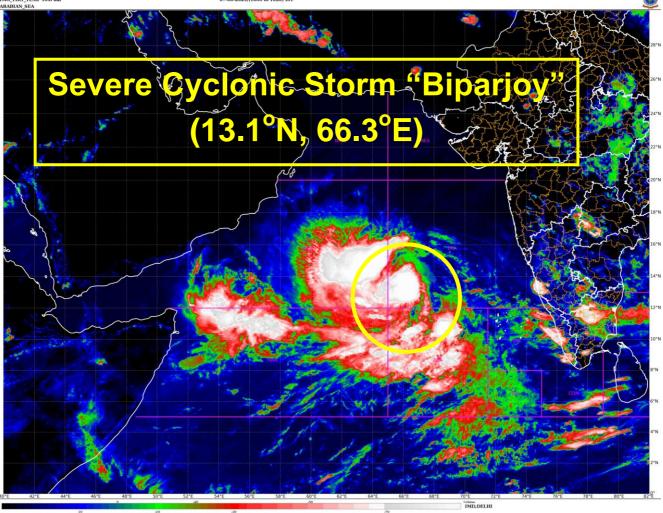
SEA SURFACE TEMPERATURE IS AROUND 30-32°C OVER CENTRAL & ADJOINING SOUTH ARABIAN SEA. THE CYCLONIC STORM "BIPARJOY" IS CURRENTLY IN A VERY FAVOURABLE ENVIROMENT WITH POSITIVE LOW LEVEL VORTICITY (200X10⁻⁶S⁻¹) NEAR SYSTEM CENTRE, LOW LEVEL CONVERGENCE OF ABOUT 50X10⁻⁵S⁻¹ OVER THE AREA AND UPPER LEVEL DIVERGENCE OF ABOUT 30X10⁻⁵S⁻¹ TO THE SOUTH OF SYSTEM CENTRE. WIND SHEAR IS MODERATE OVER SYSTEM AREA (15-20 KNOTS) AND IS WEAK 05-10 KTS ALONG THE FORECASTE TRACK . MJO IS IN PHASE 2 WITH AMPLITUDE CLOSE TO 1 AND EQUATORIAL ROSSBY WAVES, KELVIN WAVES ALONGWITH WESTERLY WINDS (5-7 MPS) ARE ALSO PREVAILING OVER SOUTH AND CENTRAL ARABIAN SEA. TOTAL PRECEIPITABLE WATER IMAGERY INDICATE THE WARM MOIST AIR INCURSION INTO THE SYSTEM.

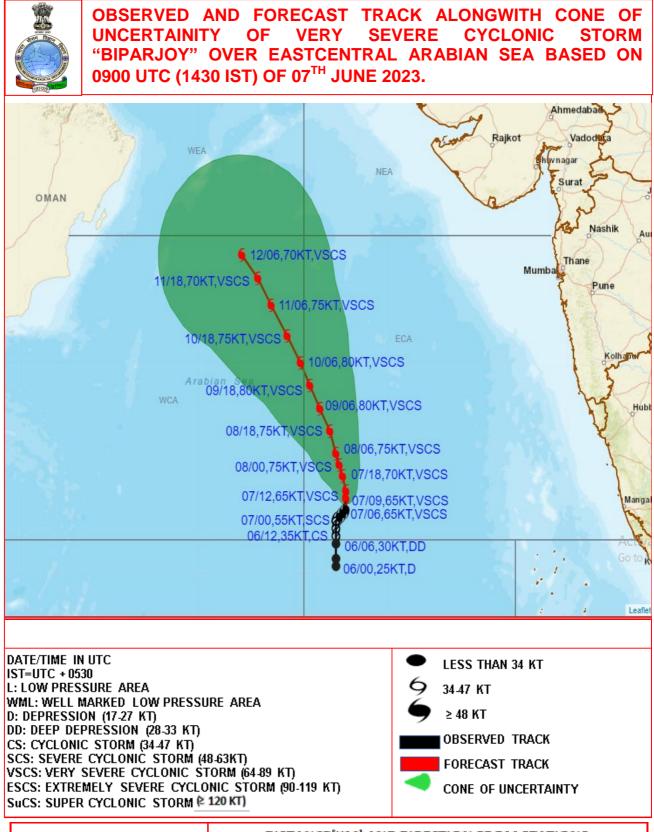
MOST OF THE MODELS SUCH AS ECMWF, IMDGFS, NCEP GFS, NCUM, IMD MME, IMD HWRF KEEPING THE SYSTEM INTENSITY AS VERY SEVERE CYCLONIC STORM FOR NEXT 4-5 DAYS. THE MODELS SUCH AS ECMWF, IMD GFS, NCUM, IMD MME, IMD HWRF ARE INDICATING INITIAL NEAR NORTHWARDS MOVEMENT TILL 8TH JUNE AND THEN NORTHWESTWARDS MOVEMENT OF THE SYSTEM DURING SUBSEQUENT 3 DAYS. HOWEVER, NCEP GFS IS INDICATING LANDFALL OVER OMAN. THERE IS LARGE VARIATION AMONG VARIOUS MODELS WRT FURTHER MOVEMENT OF THE SYSTEM AFTER 11TH JUNE.

CONSIDERING ALL THE ABOVE, VERY SEVERE CYCLONIC STORM"BIPARJOY" IS LIKELY TO MOVE NEARLY NORTHWARDS DURING NEXT 24 HOURS AND THEN NORTH-NORTHWESTWARDS DURING SUBSEQUENT 3 DAYS.

> DR RK JENAMANI SC-G RSMC NEW DELHI

SAT : INSAT-3D IMG IMG_TIR1_TEMP 10.8 un





STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS			
STATIONS	08.06.23/0900	09.06.23/0600	10.06.23/0600	
PORBANDAR	900, SSW	810, SSW	740, SW	
BOMBAY / COLABA	880, SW	870, WSW	870, WSW	
GOA/PANJIM	860, W	900, W	960, W	
KARACHI AIRPORT	1180, S	1060, S	940, SSW	
MASIRAH	1030, SE	900, SE	770, SE	

50-63 (92-117)

≥ 64 (≥118)

Very high seas

Phenomenal

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL ARABIAN SEA BASED ON 0900 UTC (1430 IST) OF 07TH JUNE 2023.

and and and				
OMAN	10/18,75KT,VSCS	ECA Kolh 09/06,80KT,VSCS Kolh 09/06,80KT,VSCS 08/18,75KT,VSCS 08/18,75KT,VSCS 08/00,75KT,VSCS S 07/12,65KT,VSCS 07/09,65KT,VSCS 07/06,65KT,VSCS		
e state		• 06/00,25KT,D		
DATE/TIME IN UTC IST=UTC + 0530 L: LOW PRESSURE AREA WML: WELL MARKED LOW PRESSURE AREA D: DEPRESSION (17-27 KT) DD: DEEP DEPRESSION (28-33 KT) 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 (≥ 120 KT) SUCS: SUPER CYCLONIC STORM (≥ 120 KT) D: DEP DEPRESSION (≥ 120 KT) D: DEP DEPRESSION (≥ 120 KT) D: DEPRESSION (≥ 120 KT) LESS THAN 34 KT SUCS: SUPER CYCLONIC STORM (≥ 120 KT) LESS THAN 34 KT SUCS: SUPER CYCLONIC STORM (≥ 120 KT) LESS THAN 34 KT SUCS: SUPER CYCLONIC STORM (≥ 120 KT) LESS THAN 34 KT SUCS: SUPER CYCLONIC STORM (≥ 120 KT)				
	IMPACT OV			
MSW (knot/kmph)	Impact	Action		
28-33 (52-61)	Very rough seas	Total suspension of fishing operations		
34-49 (62-91)	High to very high seas	Total suspension of fishing operations		

Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature (CTT) >-25°C, (b) Moderate: CTT: - 25°C to -40°C, (c) Intense: CTT: - 41°C to -70°C and (d) Very Intense: : Less than -70°C PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION): NIL: 0%, LOW: 1-33%, , MODERATE: 34-66% AND HIGH: 67-100% This is a guidance Bulletin for WMO/ESCAP Panel Member countries. Visit respective National websites for Country specific Bulletins

Total suspension of fishing operations

Total suspension of fishing operations

