



## 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. 5 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0330 UTC OF 07.06.2023 BASED ON 0000 UTC OF 07.06.2023

## SUB: THE CYCLONIC STORM "BIPARJOY" (PRONOUNCED AS "BIPORJOY") INTENSIFIED INTO SEVERE CYCLONIC STORM OVER EASTCENTRAL AND ADJOINING SOUTHEAST ARABIAN SEA

THE CYCLONIC STORM "**BIPARJOY**" (**PRONOUNCED AS** "**BIPORJOY**") OVER EASTCENTRAL AND ADJOINING SOUTHEAST ARABIAN SEA MOVED NEARLY NORTHWARDS WITH A SPEED OF 2 KMPH DURING LAST 6 HOURS, INTENSIFIED INTO A SEVERE CYCLONIC STORM AND LAY CENTERED AT 0000 UTC OF 07<sup>TH</sup> JUNE, 2023 OVER THE SAME REGION NEAR LATITUDE 12.6°N AND LONGITUDE 66.1 °E, ABOUT 890 KM WEST-SOUTHWEST OF GOA(43192), 1000 KM SOUTHWEST OF MUMBAI(43057), 1070 KM SOUTH-SOUTHWEST OF PORBANDAR(42830) AND 1370 KM SOUTH OF KARACHI(41780).

IT IS LIKELY TO MOVE NEARLY NORTHWARDS DURING NEXT 24 HOURS AND INTENSIFY INTO A VERY SEVERE CYCLONIC STORM. IT WOULD THEN MOVE NORTH-NORTHWESTWARDS DURING SUBSEQUENT 3 DAYS.

Date/Time(UTC)		Maximum sustained surface	
	(Lat. ⁰N/ long. ⁰E	wind speed (Kmph)	disturbance
07.06.23/0000	12.6/66.1	95-105 gusting to 115	Severe Cyclonic Storm
07.06.23/0600	12.8/66.2	105-115 gusting to 125	Severe Cyclonic Storm
07.06.23/1200	13.0/66.3	115-125 gusting to 140	Very Severe Cyclonic Storm
07.06.23/1800	13.3/66.3	125-135 gusting to 150	Very Severe Cyclonic Storm
08.06.23/0000	13.9/66.2	130-140 gusting to 155	Very Severe Cyclonic Storm
08.06.23/1200	14.5/66.0	135-145 gusting to 160	Very Severe Cyclonic Storm

## Forecast track and intensity are given below:

09.06.23/0000	15.1/65.8	135-145 gusting to 160	Very Severe Cyclonic Storm
09.06.23/1200	15.8/65.5	145-155 gusting to 170	Very Severe Cyclonic Storm
10.06.23/0000	16.5/65.2	145-155 gusting to 170	Very Severe Cyclonic Storm
10.06.23/1200	17.4/64.8	145-155 gusting to 170	Very Severe Cyclonic Storm
11.06.23/0000	18.3/64.4	135-145 gusting to 160	Very Severe Cyclonic Storm
11.06.23/1200	19.2/64.0	130-140 gusting to 155	Very Severe Cyclonic Storm
12.06.23/0000	19.8/63.7	125-135 gusting to 150	Very Severe Cyclonic Storm

AS PER INSAT 3D IMAGERY INTENSITY OF THE SYSTEM IS T 3.5. 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 10.0N & 15.0N LONGITUDE 60.0E & 67.5E. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93DEG C.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED IS 55 KNOTS GUSTING TO 65 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 990 HPA. SEA CONDITION IS LIKELY TO BE VERY HIGH OVER EASTCENTRAL AND ADJOINING EASTCENTRAL ARABIAN SEA.

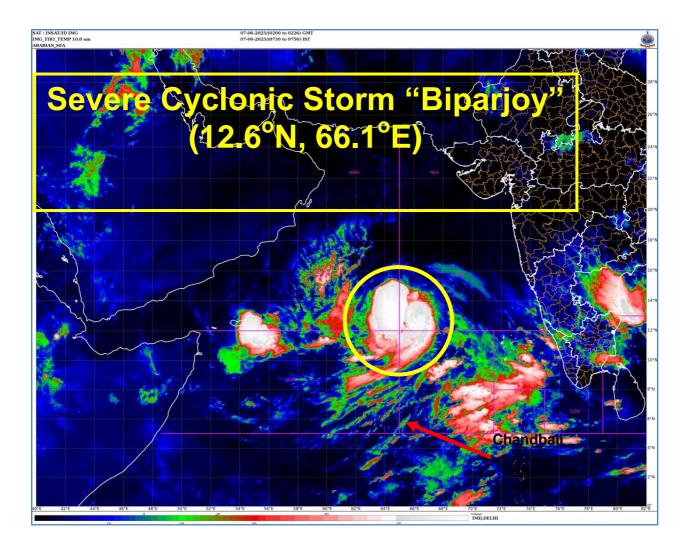
**REMARKS:** SEA SURFACE TEMPERATURE IS AROUND 30-32°C OVER SOUTH & ADJOINING CENTRAL ARABIAN SEA. THE CYCLONIC STORM "BIPARJOY" (PRONOUNCED AS "BIPORJOY") IS CURRENTLY IN A VERY FAVOURABLE ENVIROMENT WITH POSITIVE LOW LEVEL VORTICITY (190X10<sup>-6</sup>S<sup>-1</sup>) TO THE SOUTH WEST OF SYSTEM CENTRE, LOW LEVEL CONVERGENCE IS ABOUT 50-60X10<sup>-5</sup>S<sup>-1</sup> OVER THE AREA, UPPER LEVEL DIVERGENCE IS ABOUT 50-60X10<sup>-5</sup>S<sup>-1</sup> OVER THE AREA, UPPER LEVEL DIVERGENCE IS ABOUT 50-60X10<sup>-5</sup>S<sup>-1</sup> OVER THE AREA, UPPER LEVEL DIVERGENCE IS ABOUT 50-60X10<sup>-5</sup>S<sup>-1</sup> OVER THE AREA, UPPER LEVEL DIVERGENCE IS ABOUT 50-60X10<sup>-5</sup>S<sup>-1</sup> OVER THE AREA, UPPER LEVEL DIVERGENCE IS ABOUT 50-60X10<sup>-5</sup>S<sup>-1</sup> OVER THE AREA, UPPER LEVEL DIVERGENCE IS ABOUT 50-60X10<sup>-5</sup>S<sup>-1</sup> OVER THE AREA, UPPER LEVEL DIVERGENCE IS ABOUT 50-60X10<sup>-5</sup>S<sup>-1</sup> OVER THE AREA, UPPER LEVEL DIVERGENCE IS ABOUT 50-60X10<sup>-5</sup>S<sup>-1</sup> OVER THE AREA, UPPER LEVEL DIVERGENCE IS ABOUT 50-60X10<sup>-5</sup>S<sup>-1</sup> OVER THE AREA, UPPER LEVEL DIVERGENCE IS ABOUT 50X10<sup>-5</sup>S<sup>-1</sup> TO THE SOUTH OF SYSTEM CENTRE. WIND SHEAR IS MODERATE OVER SYSTEM AREA (15-20 KNOTS). 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 ARE INDICATING FURTHER INTESIFICATION OF THE SYSTEM. MOST OF THE MODELS SUCH AS ECMWF, NCEP GFS, NCUM, IMD MME ALSO ARE INDICATING NEARLY NORTHWARDS MOVEMENT OF THE SYSTEM DURING NEXT 3 DAYS AND THERE IS LARGE VARIATION THEREAFTER. ECMWF INDICATING WEAKENING OVER EASTCENTRAL ARABIAN SEA, IMD GFS INDICATING WEAKENING OVER NORTHEAST ARABIAN SEA, NCEP GFS INDICATING ULKELY MOVEMENT TOWARDS OMAN COAST AND NCUM INDICATING MOVEMENT TOWARDS PAKISTAN-IRAN COASTS.

CONSIDERING THE LATEST ENVIRONMENTAL FEATURES AND MODEL GUIDANCE, THE CYCLONIC STORM "BIPARJOY" (PRONOUNCED AS "BIPORJOY") IS LIKELY TO MOVE NEARLY NORTHWARDS DURING NEXT 24 HOURS AND INTENSIFY INTO A VERY SEVERE CYCLONIC STORM. IT WOULD THEN MOVE NORTH-NORTHWESTWARDS DURING SUBSEQUENT 3 DAYS.

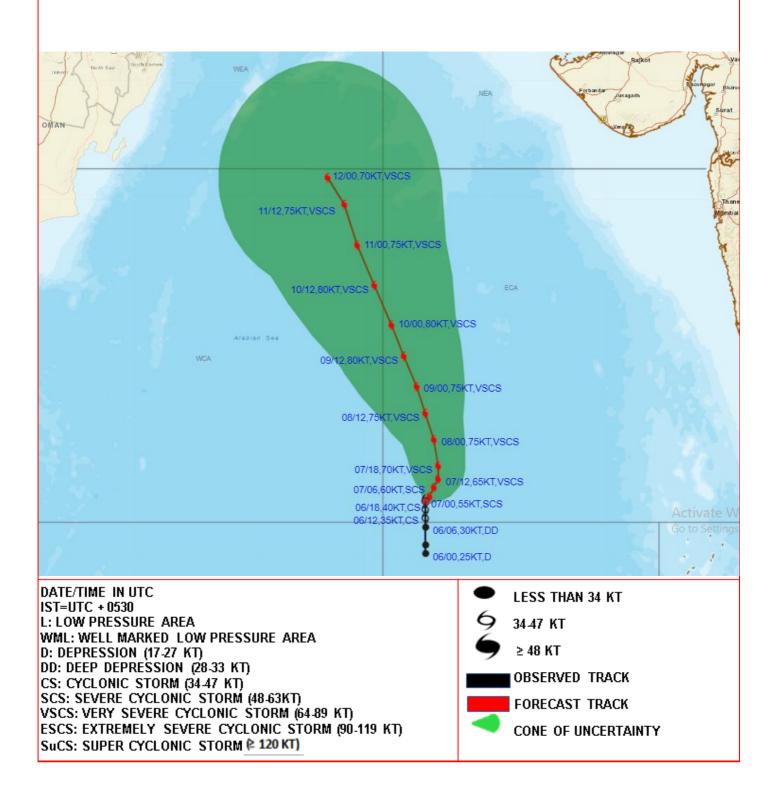
DR JOHNY C J SC-D RSMC NEW DELHI

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



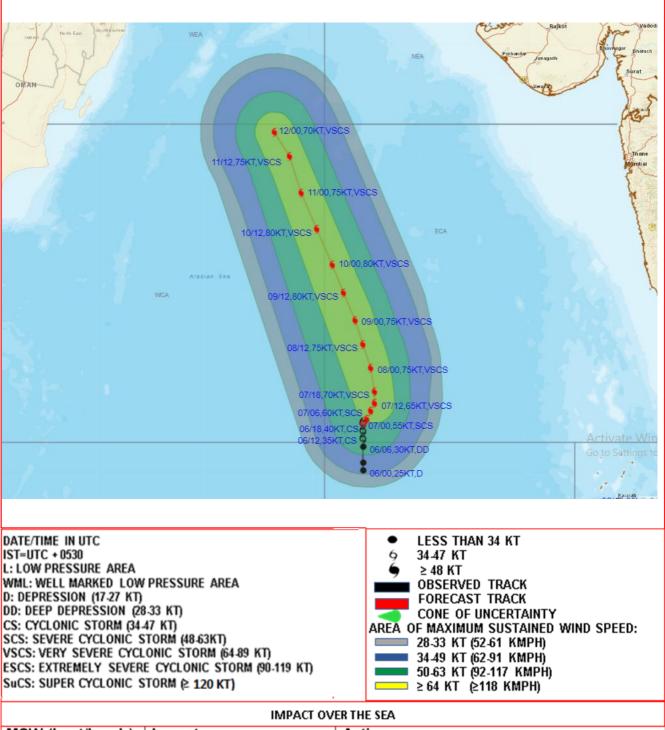


OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL AND ADJOINING SOUTHEAST ARABIAN SEA BASED ON 0000 UTC (0530 IST) OF 07<sup>TH</sup> JUNE 2023.





OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL AND ADJOINING SOUTHEAST ARABIAN SEA BASED ON 0000 UTC (0530 IST) OF 07<sup>TH</sup> JUNE 2023.



IMPACT OVER THE SEA				
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		
50-63 (92-117)	Very high seas	Total suspension of fishing operations		
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations		