



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. 6 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0600 UTC OF 07.06.2023 BASED ON 0300 UTC OF 07.06.2023

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

THE SEVERE CYCLONIC STORM "**BIPARJOY**" (**PRONOUNCED AS** "**BIPORJOY**") OVER EASTCENTRAL AND ADJOINING SOUTHEAST ARABIAN SEA MOVED NEARLY NORTH-NORTHEASTWARDS WITH A SPEED OF 5 KMPH DURING LAST 6 HOURS AND LAY CENTERED AT 0830 HOURS IST OF 07TH JUNE, 2023 OVER THE SAME REGION NEAR LATITUDE 12.7°N AND LONGITUDE 66.2 °E, ABOUT 880 KM WEST-SOUTHWEST OF GOA (43192), 990 KM SOUTHWEST OF MUMBAI (43057), 1060 KM SOUTH-SOUTHWEST OF PORBANDAR (42830) AND 1360 KM SOUTH OF KARACHI (41780).

IT IS VERY LIKELY TO INTENSIFY INTO A VERY SEVERE CYCLONIC STORM DURING NEXT 12 HOURS. IT WOULD MOVE NEARLY NORTHWARDS DURING NEXT 24 HOURS AND THEN NORTH-NORTHWESTWARDS DURING SUBSEQUENT 3 DAYS.

Date/Time(UTC)	Position (Lat. ⁰N/ long. ⁰E	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
07.06.23/0300	12.7/66.2	105-115 gusting to 125	Severe Cyclonic Storm
07.06.23/0600	12.8/66.3	110-120 gusting to 135	Severe Cyclonic Storm
07.06.23/1200	13.0/66.4	120-130 gusting to 145	Very Severe Cyclonic Storm
07.06.23/1800	13.3/66.4	125-135 gusting to 150	Very Severe Cyclonic Storm
08.06.23/0000	13.6/66.4	130-140 gusting to 155	Very Severe Cyclonic Storm

Forecast track and intensity are given below:

08.06.23/1200	14.3/66.2	135-145 gusting to 160	Very Severe Cyclonic Storm
09.06.23/0000	15.0/65.9	135-145 gusting to 160	Very Severe Cyclonic Storm
09.06.23/1200	15.7/65.6	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 10.5N & 16.0N LONGITUDE 62.0E & 67.0E. 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 60 KNOTS GUSTING TO 65 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 988 HPA. SEA CONDITION IS LIKELY TO BE VERY HIGH TO PHENOMENAL OVER EASTCENTRAL AND ADJOINING EASTCENTRAL ARABIAN SEA.

REMARKS:

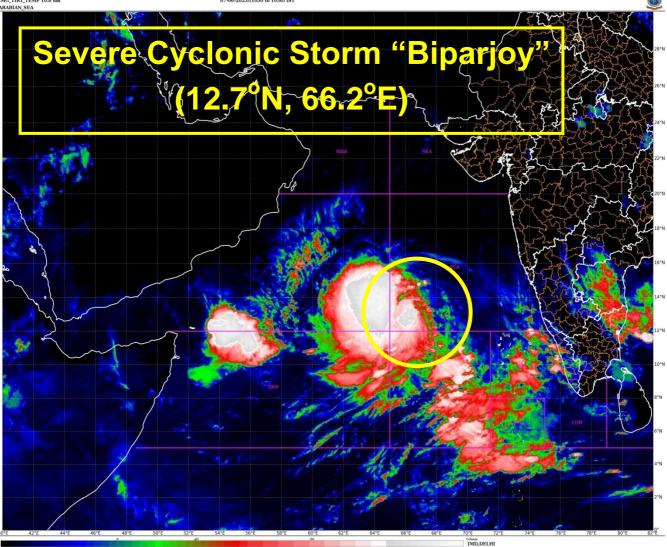
SEA SURFACE TEMPERATURE IS AROUND 30-32°C OVER CENTRAL & ADJOINING SOUTH ARABIAN SEA. THE CYCLONIC STORM "BIPARJOY" IS CURRENTLY IN A VERY FAVOURABLE ENVIROMENT WITH POSITIVE LOW LEVEL VORTICITY (200X10⁻⁶S⁻¹) TO NEAR SYSTEM CENTRE, LOW LEVEL CONVERGENCE IS ABOUT 50X10⁻⁵S⁻¹ OVER THE AREA, UPPER LEVEL DIVERGENCE IS ABOUT 40X10⁻⁵S⁻¹ 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, IMD HWRF ARE INDICATING FURTHER INTESIFICATION OF THE SYSTEM UPTO VERY SEVERE CATEGORY OF STORM. THE MODELS SUCH AS ECMWF, IMD GFS, NCUM, IMD MME, IMD HWRF ARE INDICATING INITIAL NEAR NORTHWARDS MOVEMENT TILL 8TH JUNE AND THEN NORTH-NORTHWESTWARDS MOVEMENT OF THE SYSTEM DURING SUBSEQUENT 3 DAYS. HOWEVER, NCUM IS INDICATING LANDFALL OVER OMAN. ECMWF INDICATING WEAKENING OVER EASTCENTRAL ARABIAN SEA, IMD GFS INDICATING WEAKENING OVER NORTHEAST ARABIAN SEA, NCEP GFS INDICATING LIKELY 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.

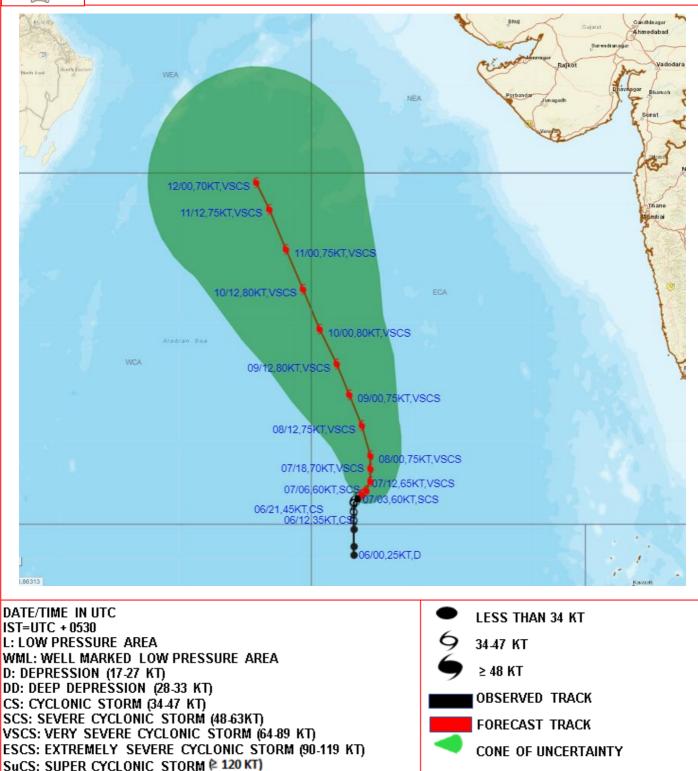
M SHARMA SC-D RSMC NEW DELHI

SAT : INSAT-3D IMG IMG_TIR1_TEMP 10.8 um ARABIAN_SEA





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL AND ADJOINING SOUTHEAST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 07TH JUNE 2023.





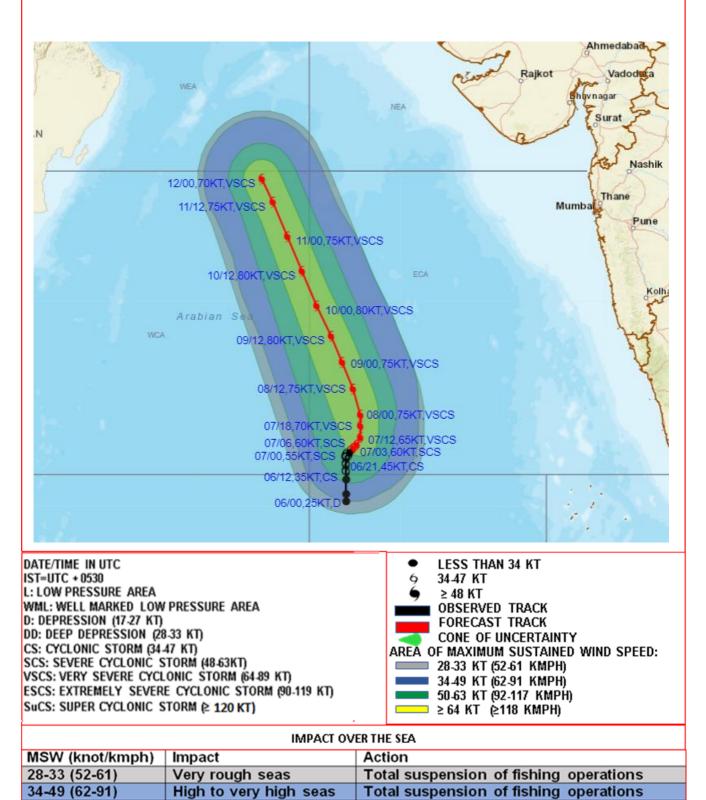
50-63 (92-117)

 $\geq 64 \ (\geq 118)$

Very high seas

Phenomenal

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL AND ADJOINING SOUTHEAST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 07TH JUNE 2023.



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

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