



## 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. 12 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 2330 UTC OF 07.06.2023 BASED ON 2100 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 ARABIAN SEA MOVED NEARLY NORTH-NORTHWESTWARD WITH A SPEED OF 6 KMPH DURING LAST 6 HOURS AND LAY CENTERED AT 2100UTC OF TODAY, THE 07<sup>TH</sup> JUNE, 2023 OVER THE SAME REGION NEAR LATITUDE 13.7°N AND LONGITUDE 66.0 °E, ABOUT 865 KM WEST-SOUTHWEST OF GOA(43192), 930 KM SOUTHWEST OF MUMBAI(43057), 965 KM SOUTH-SOUTHWEST OF PORBANDAR(42830) AND 1250 KM SOUTH OF KARACHI(41780).

IT WOULD INTENSIFY FURTHER GRADUALLY DURING NEXT 48 HOURS AND MOVE NEARLY NORTH-NORTHWESTWARDS DURING NEXT 3 DAYS.

Forecast track and intensity are given below:

Date/Time(UTC)	Position	Maximum sustained surface	Category of cyclonic	
	(Lat. <sup>0</sup> N/ long. <sup>0</sup> E)	wind speed (Kmph)	disturbance	
07.06.23/2100	13.7/66.0	125-135 gusting to 150	Very Severe Cyclonic Storm	
08.06.23/0000	13.9/65.9	130-140 gusting to 155	Very Severe Cyclonic Storm	
08.06.23/0600	14.2/65.8	135-145 gusting to 160	Very Severe Cyclonic Storm	
08.06.23/1200	14.5/65.7	135-145 gusting to 160	Very Severe Cyclonic Storm	
08.06.23/1800	14.8/65.6	145-155 gusting to 170	Very Severe Cyclonic Storm	
09.06.23/0600	15.5/65.3	145-155 gusting to 170	Very Severe Cyclonic Storm	
09.06.23/1800	16.3/65.1	145-155 gusting to 170	Very Severe Cyclonic Storm	
10.06.23/0600	17.0/65.0	145-155 gusting to 170	Very Severe Cyclonic Storm	
10.06.23/1800	17.6/64.8	135-145 gusting to 160	Very Severe Cyclonic Storm	
11.06.23/0600	18.3/64.6	135-145 gusting to 160	Very Severe Cyclonic Storm	
11.06.23/1800	19.0/64.4	135-145 gusting to 160	Very Severe Cyclonic Storm	
12.06.23/0600	19.6/64.2	130-140 gusting to 155	Very Severe Cyclonic Storm	
12.06.23/1800	20.2/64.0	130-140 gusting to 155	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 11.0N & 16.0N LONGITUDE 61.0E & 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 70 KNOTS GUSTING TO 75 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 980 HPA. SEA CONDITION IS LIKELY TO BE PHENOMENAL OVER EASTCENTRAL AND ADJOINING EASTCENTRAL ARABIAN SEA.

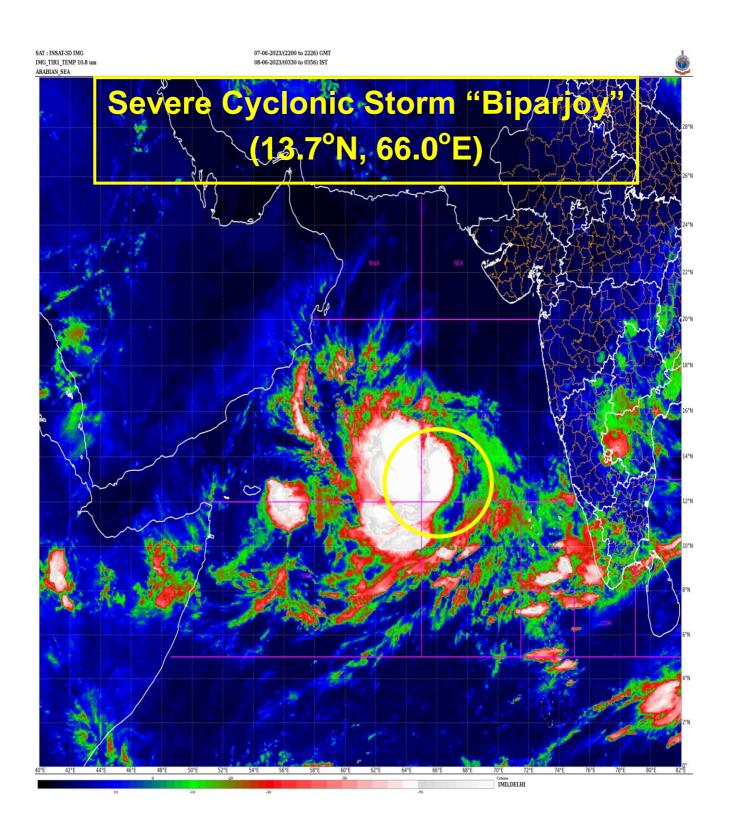
## **REMARKS:**

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 40X10-5S-1 OVER THE AREA AND UPPER LEVEL DIVERGENCE OF ABOUT 20X10-5S-1 TO THE SOUTH OF SYSTEM CENTRE. WIND SHEAR IS MODERATE OVER SYSTEM AREA (15-20 KNOTS) AND IS WEAK 10-15 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 FURTHER INTENSIFYING THE SYSTEM DURING NEXT 12 HOURS. THE MODELS SUCH AS ECMWF, IMD GFS, NCUM, IMD MME, IMD HWRF ARE INDICATING INITIALLY NEAR NORTHWARDS MOVEMENT FOR 12 HOURS AND THEN NORTH-NORTHWESTWARDS 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  $11^{\rm TH}$  JUNE.

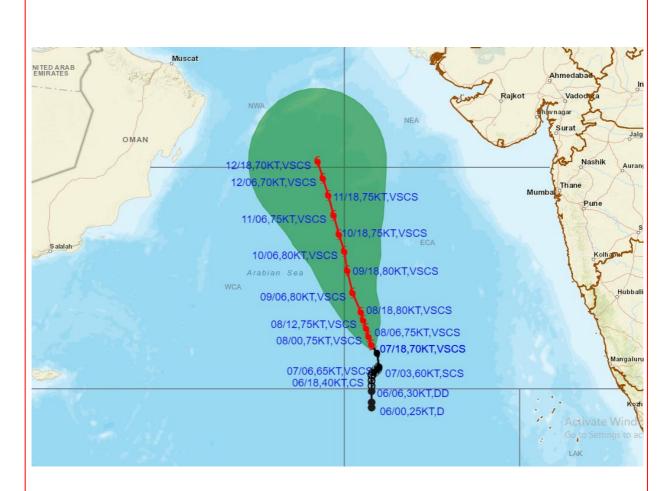
CONSIDERING ALL THE ABOVE, VERY SEVERE CYCLONIC STORM "BIPARJOY" WOULD INTENSIFY FURTHER GRADUALLY DURING NEXT 48 HOURS AND MOVE NEARLY NORTH-NORTHWESTWARDS DURING NEXT 3 DAYS.

DR TRISANU BANIK SC-C RSMC NEW DELHI





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL ARABIAN SEA BASED ON 1800 UTC (2330 IST) OF 07<sup>TH</sup> JUNE 2023.



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)

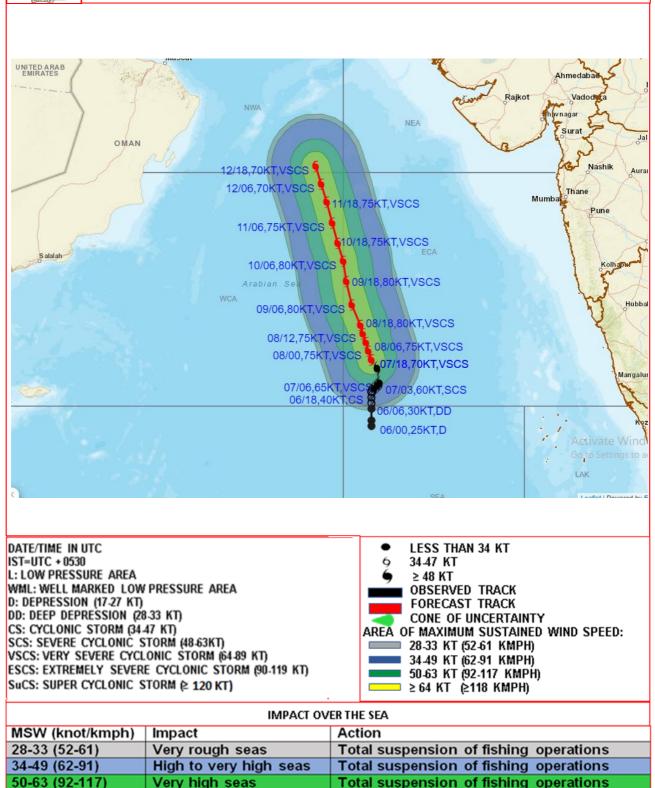
•	LESS THAN 34 KT
9	34-47 KT
9	≥ 48 KT
	OBSERVED TRACK
	FORECAST TRACK
	CONE OF UNCERTAINTY

STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS			
STATIONS	08.06.23/1800	09.06.23/1800	10.06.23/1800	
PORBANDAR	870, SSW	760, SW	680, SW	
BOMBAY / COLABA	890, WSW	860, WSW	850, W	
GOA/PANJIM	890, W	940, W	990, WNW	
KARACHI AIRPORT	1130, S	980, SSW	840, SSW	
MASIRAH	960, SE	810, SE	700, ESE	



≥ 64 (≥118)

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL ARABIAN SEA BASED ON 1800 UTC (2330 IST) OF 07TH JUNE 2023.



Total suspension of fishing operations

**Phenomenal** 

