



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. 10 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1800 UTC OF 07.06.2023 BASED ON 1500 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 NORTHWARDS WITH A SPEED OF 6 KMPH DURING LAST 6 HOURS AND LAY CENTERED AT 1500UTC OF TODAY, THE 07TH JUNE, 2023 OVER THE SAME REGION NEAR LATITUDE 13.4°N AND LONGITUDE 66.2 °E, ABOUT 850 KM WEST-SOUTHWEST OF GOA(43192), 930 KM SOUTHWEST OF MUMBAI(43057), 990 KM SOUTH-SOUTHWEST OF PORBANDAR(42830) AND 1280 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. ⁰N/ long. ºE)	wind speed (Kmph)	disturbance
07.06.23/1500	13.4/66.2	120-130 gusting to 145	Very Severe Cyclonic Storm
07.06.23/1800	13.6/66.1	125-135 gusting to 150	Very Severe Cyclonic Storm
08.06.23/0000	13.9/66.0	130-140 gusting to 155	Very Severe Cyclonic Storm
08.06.23/0600	14.2/65.9	135-145 gusting to 160	Very Severe Cyclonic Storm
08.06.23/1200	14.5/65.8	135-145 gusting to 160	Very Severe Cyclonic Storm
09.06.23/0000	15.1/65.5	135-145 gusting to 160	Very Severe Cyclonic Storm
09.06.23/1200	15.7/65.2	145-155 gusting to 170	Very Severe Cyclonic Storm
10.06.23/0000	16.4/64.9	145-155 gusting to 170	Very Severe Cyclonic Storm
10.06.23/1200	17.1/64.5	145-155 gusting to 170	Very Severe Cyclonic Storm
11.06.23/0000	17.8/64.1	135-145 gusting to 160	Very Severe Cyclonic Storm
11.06.23/1200	18.5/63.6	135-145 gusting to 160	Very Severe Cyclonic Storm
12.06.23/0000	19.2/63.1	130-140 gusting to 155	Very Severe Cyclonic Storm
12.06.23/1200	19.9/62.5	125-135 gusting to 150	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 982 HPA. SEA CONDITION IS LIKELY TO BE PHENOMENAL OVER EASTCENTRAL AND ADJOINING EASTCENTRAL ARABIAN SEA.

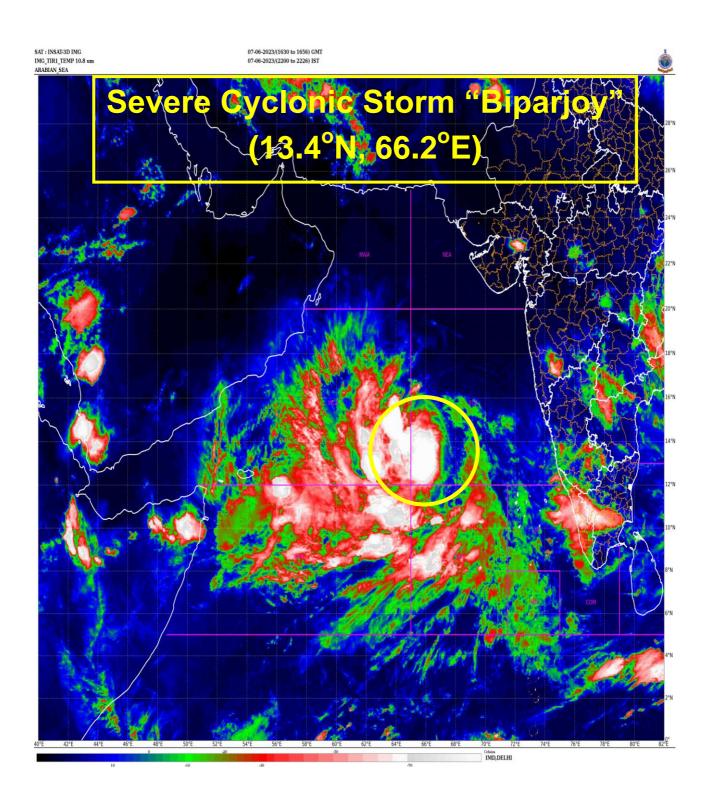
REMARKS:

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 30X10-5S-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.

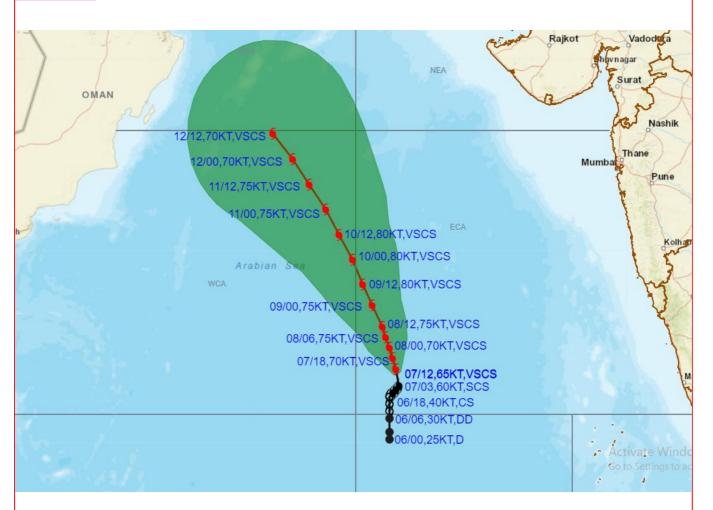
CONSIDERING ALL THE ABOVE, VERY SEVERE CYCLONIC STORM "BIPARJOY" WOULD INTENSIFY FURTHER GRADUALLY DURING NEXT 48 HOURS AND MOVE NEARLY NORTH-NORTHWESTWARDS DURING NEXT 3 DAYS.

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 1200 UTC (1730 IST) OF 07TH 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)

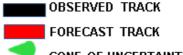
SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM € 120 KT)





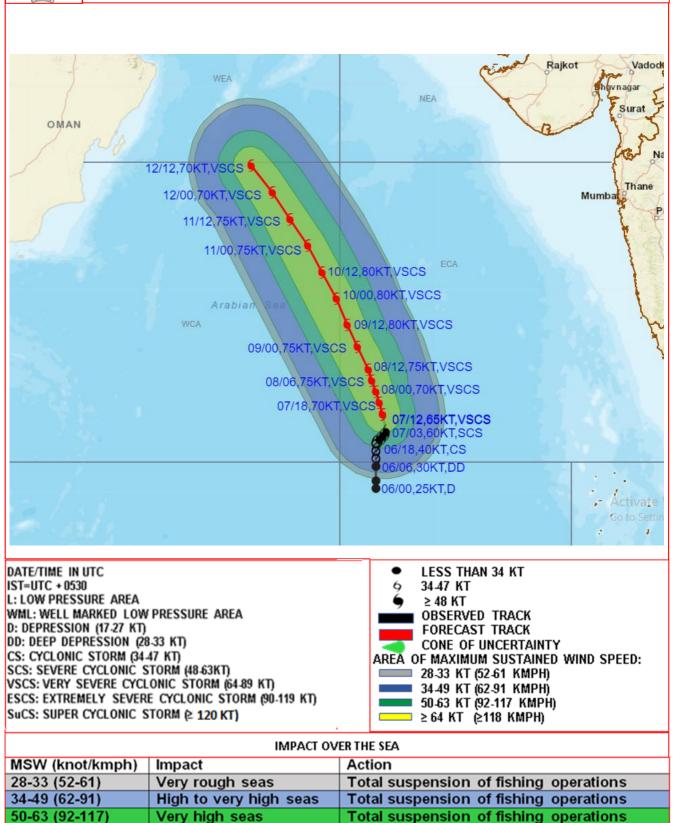
CONE OF UNCERTAINTY

STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS			
STATIONS	08.06.23/1200	09.06.23/1200	10.06.23/1200	
PORBANDAR	890, SSW	810, SW	740, SW	
BOMBAY / COLABA	890, WSW	890, WSW	900, WSW	
GOA/PANJIM	870, W	930, W	1010, WNW	
KARACHI AIRPORT	1160, S	1040, S	910, SSW	
MASIRAH	1000. SE	860. SE	710. ESE	



≥ 64 (≥118)

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL ARABIAN SEA BASED ON 1200 UTC (1730 IST) OF 07TH JUNE 2023.



Total suspension of fishing operations

Phenomenal

