



REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI TROPICAL CYCLONE ADVISORY

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 08.06.2023

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. 17 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1500 UTC OF 08.06.2023 BASED ON 1200 UTC OF 08.06.2023

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 PAST 6 HOURS AND LAY CENTERED 1200 UTC OF TODAY, THE 08TH JUNE, 2023 OVER THE SAME REGION NEAR LATITUDE 14.4°N AND LONGITUDE 66.0°E, ABOUT 850 KM WEST OF GOA (43192), 880 KM SOUTHWEST OF MUMBAI (43057), 890 KM SOUTH-SOUTHWEST OF PORBANDAR (42830) AND 1170 KM SOUTH OF KARACHI (41780).

IT WOULD INTENSIFY FURTHER GRADUALLY DURING NEXT 24 HOURS AND MOVE NEARLY NORTH-NORTHWESTWARDS DURING NEXT 3 DAYS.

Date/Time(UTC)	Position (Lat. ⁰N/ long. ⁰E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
08.06.23/1200	14.4/66.0	135-145 gusting to 160	Very Severe Cyclonic Storm
08.06.23/1800	14.7/65.9	140-150 gusting to 165	Very Severe Cyclonic Storm
09.06.23/0000	15.0/65.8	145-155 gusting to 170	Very Severe Cyclonic Storm
09.06.23/0600	15.3/65.7	145-155 gusting to 170	Very Severe Cyclonic Storm
09.06.23/1200	15.6/65.6	155-165 gusting to 180	Very Severe Cyclonic Storm
10.06.23/0000	16.2/65.4	155-165 gusting to 180	Very Severe Cyclonic Storm
10.06.23/1200	16.9/65.2	145-155 gusting to 170	Very Severe Cyclonic Storm

Forecast track and intensity are given below:

11.06.23/0000	17.6/65.0	140-150 gusting to 165	Very Severe Cyclonic Storm
11.06.23/1200	18.3/64.8	135-145 gusting to 160	Very Severe Cyclonic Storm
12.06.23/0000	19.0/64.6	135-145 gusting to 160	Very Severe Cyclonic Storm
12.06.23/1200	19.7/64.4	125-135 gusting to 150	Very Severe Cyclonic Storm
13.06.23/0000	20.4/64.2	120-130 gusting to 145	Very Severe Cyclonic Storm
13.06.23/1200	21.2/64.0	115-125 gusting to 140	Very Severe Cyclonic Storm

AS PER INSAT 3D IMAGERY INTENSITY OF THE SYSTEM IS T 4.0. VISIBLE IMAGERY SHOWS DENSE CONVECTIVE CLOUD MASS TO THE WEST OF THE SYSTEM CENTER. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER CENTRAL AND ADJOINING SOUTH ARABIAN SEA BETWEEN LATITUDE 12.0N & 17.0N LONGITUDE 61.0E & 66.0E. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93°C.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED IS 75 KNOTS GUSTING TO 85 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 978 HPA. SEA CONDITION IS LIKELY TO BE PHENOMENAL OVER EASTCENTRAL AND ADJOINING WESTCENTRAL ARABIAN SEA.

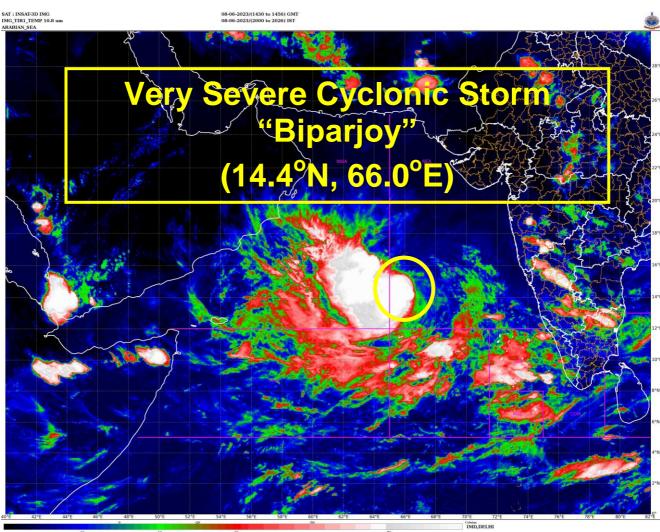
REMARKS:

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 (250X10⁻⁶S⁻¹) NEAR SYSTEM CENTRE, LOW LEVEL CONVERGENCE IS ABOUT 40X10⁻⁵S⁻¹ OVER THE SYSTEM AREA AND UPPER LEVEL DIVERGENCE IS ABOUT 30X10⁻⁵S⁻¹ TO THE SOUTHWEST 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 ALONGWITH WESTERLY WINDS (5-7 MPS) ARE ALSO PREVAILING OVER CENTRAL ARABIAN SEA.

THERE IS STILL LARGE VARIATION AMONG VARIOUS MODELS WRT MOVEMENT OF THE SYSTEM AFTER 3 DAYS. NCEP GFS IS INDICATING MOVEMENT TOWARDS OMAN, ECMWF TOWARDS PAKISTAN & ADJOINING NORTH GUJARAT COASTS, IMD GFS OVER IRAN-PAKISTAN COASTS, NCUM TOWARDS GUJARAT COAST, IMD MME TOWARDS PAKISTAN-IRAN COASTS AND IMDHWRF TOWARDS WESTCENTRAL ARABIAN SEA DURING NEXT 5 DAYS.

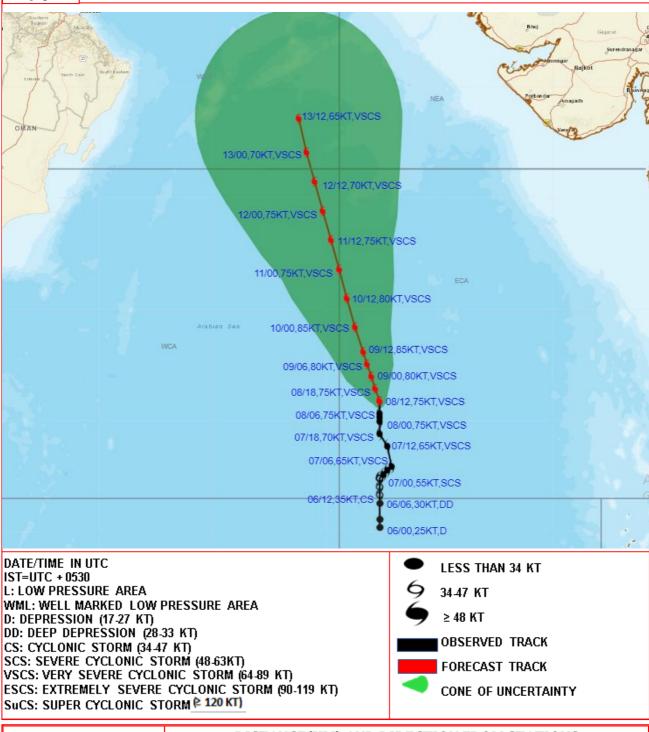
CONSIDERING ALL THE ABOVE, VERY SEVERE CYCLONIC STORM "BIPARJOY" WOULD INTENSIFY FURTHER GRADUALLY DURING NEXT 24 HOURS AND MOVE NEARLY NORTH-NORTHWESTWARDS DURING NEXT 3 DAYS.

MONICA SHARMA SCIENTIST-D 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 08TH JUNE 2023.



STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS			
STATIONS	09.06.23/1200	10.06.23/1200	11.06.23/1200	
PORBANDAR	790, SSW	700, SW	630, SW	
BOMBAY / COLABA	850, WSW	840, WSW	840, W	
GOA/PANJIM	890, W	940, W	1010, WNW	
KARACHI AIRPORT	1040, S	910, SSW	770, SSW	
MASIRAH	900, SE	780, ESE	670, ESE	

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 08TH JUNE 2023.

JUNE 2	2023.				
Aburat Perris Ease South Eastern	WEA 13/12,65KT,VS 13/00,70KT,VSCS 12/12,704	weeks			
WC.	11/00,75KT,VSCS 10. Arabias Sea 10/00,85KT,VSCS	09/00,80KT,VSCS 08/12,75KT,VSCS 08/00,75KT,VSCS 08/00,75KT,VSCS 07/12,65KT,VSCS			
	06/12,35KT,0	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 (60-119 KT) SuCS: SUPER CYCLONIC STORM (≥ 120 KT) SuCS: SUPER CYCLONIC STORM (≥ 120 KT)					
	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) 50-63 (92-117)	High to very high seas Very high seas	Total suspension of fishing operations Total suspension of fishing operations			
JU-03 (JZ-11/1	Verv High seas	Total suspension of lishing operations			

50-63 (92-117)Very high seasTotal suspension of fishing operations≥ 64 (≥118)PhenomenalTotal suspension of fishing operations

