



REGIONALSPECIALISED METEOROLOGICALCENTRE-TROPICALCYCLONES,NEW DELHI TROPICAL CYCLONE ADVISORY

DEMS-RSMCSPECIAL TROPICAL CYCLONES NEW DELHI DATED 16.06.2023

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. 84 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 0300 UTC OF 17.06.2023 BASED ON 0000 UTC OF 17.06.2023

SUB: DEEP DEPRESSION (REMNANT OF CYCLONIC STORM 'BIPARJOY') OVER SOUTHWEST RAJASTHAN ADJOINING GUJARAT AND SOUTHEAST PAKISTAN.

THE DEEP DEPRESSION (REMNANT OF CYCLONIC STORM 'BIPARJOY') OVER SOUTHEAST PAKISTAN ADJOINING SOUTHWEST RAJASTHAN AND KUTCH MOVED EAST-NORTHEASTWARDS WITH A SPEED OF 05 KMPH DURING PAST 6-HOURS AND LAY CENTERED AT 0000 UTC OF TODAY, THE 17TH JUNE, 2023 OVER SOUTHWEST RAJASTHAN AND ADJOINING GUJARAT AND SOUTHEAST PAKISTAN NEAR LATITUDE 24.7°N AND LONGITUDE 71.2°E, ABOUT 130 KM NORTHEAST OF DHOLAVIRA (GUJARAT), 120 KM WEST-NORTHWEST OF DEESA (42539) AND 110 KM SOUTH-SOUTHWEST OF BARMER (42435).

IT IS VERY LIKELY TO MOVE EAST-NORTHEASTWARDS AND WEAKEN INTO A DEPRESSION DURING NEXT 6 HOURS. THEREAFTER, IT IS VERY LIKELY TO CONTINUE TO MOVE EAST-NORTHEASTWARDS AND MAINTAIN THE INTENSITY OF DEPRESSION DURING SUBSEQUENT 18 HOURS.

FORECAST TRACK AND INTENSITY ARE GIVEN BELOW:

DATE/TIME(UTC	POSITION	MAXIMUM SUSTAINED SURFACE	CATEGORY OF
	(LAT. ⁰ N/ LONG. ⁰ E)	WIND SPEED (KMPH)	CYCLONIC
			DISTURBANCE
17.06.23/0000	24.7/71.2	50-60 GUSTING TO 70	DEEP DEPRESSION
17.06.23/0600	24.9/71.6	45-55 GUSTING TO 65	DEPRESSION
17.06.23/1200	25.2/72.1	40-50 GUSTING TO 60	DEPRESSION
17.06.23/1800	25.5/72.7	35-45 GUSTING TO 55	DEPRESSION
18.06.23/0000	25.8/73.4	30-40 GUSTING TO 50	DEPRESSION

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

AS PER INSAT 3D IMAGERY, ASSOCIATED SCATTERED TO BROKEN LOW/MEDIUM CLOUDS WITH EMBEDED INTENSE TO VERY INTENSE CONVECTION LAY OVER SOUTHWEST RAJASTHAN, SOUTH PAKISTAN (MINIMUM CLOUD TOP TEMPERATURE IS MINUS 80°C) AND MODERATE TO INTENSE CONVECTION OVER NORTHEAST ARABIAN SEA, KUTCH, (MINIMUM CLOUD TOP TEMPERATURE IS MINUS 65°C) AND WEAK TO MODERATE CONVECTION OVER REST RAJASTHAN, SAURASHTRA, GUJARAT REGION AND GULF OF KUTCH.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED (MSW) IS 30 KNOTS GUSTING TO 40 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 990 HPA. SEA CONDITION IS LIKELY TO BE ROUGH OVER NORTHEAST ARABIAN SEA DURING NEXT 12 HOURS.

AT 0000 UTC, CHHOR (41768) MEAN SEA LEVEL PRESSURE (MSLP) OF 995.4 HPA, AND MAXIMUM SUSTAINED WIND SPEED (MSW) OF 360°/4.1KT. BARMER (42435) REPORTED MSLP OF 991.4 HPA AND MSW OF 50°/12.1KT. DEESA (42539) REPORTED MSLP OF 994.3 HPA AND MSW OF 140°/23KT. BHUJ (42634) REPORTED MSLP OF 998.8 HPA AND MSW OF 230°/6.0KT.

REMARKS:

THE LOW LEVEL VORTICITY IS AROUND 200X10-6S-1 & IS LOCATED TO THE SOUTHWEST OF THE SYSTEM CENTRE. LOW LEVEL CONVERGENCE IS ABOUT 20-30X10-5S-1 TO THE SOUTHWEST OF THE SYSTEM CENTRE AND UPPER LEVEL DIVERGENCE IS ABOUT 20X10-5 S-1 TO THE SOUTHWEST OF SYSTEM CENTRE. VERTICAL WIND SHEAR IS MODERATE (10-20 KNOTS) OVER THE SYSTEM AREA. THE RIDGE RUNS ALONG 24.5°N. THE SYSTEM IS MOVING NEARLY EAST-NORTHEASTWARDS UNDER THE INFLUENCE OF WEST-SOUTHWESTERLY WINDS PREVAILING TO THE NORTH OF THE RIDGE. SYSTEM IS STILL IN A MODERATELY FAVOURABLE ENVIRONMENT, THUS IT IS WEAKENING GRADUALLY.

BASED ON ENVIRONMENTAL CONDITIONS AND NWP MULTI-MODEL FORECASTS THE SYSTEM IS VERY LIKELY TO MOVE NEARLY EAST-NORTHEASTWARDS AND WEAKEN GRADUALLY INTO A DEPRESSION DURING NEXT 06 HOURS.

AKHIL SRIVASTAVA SCIENTIST C RSMC NEW DELHI





