



REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW

DELHI TROPICAL CYCLONE ADVISORY No. 12 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 24.10.2022 BASED ON 2100 UTC OF 24.10.2022

SUBJECT: CYCLONIC STORM "SITRANG" (PRONOUNCED AS "SI-TRANG") WEAKENED INTO A DEEP DEPRESSION OVER BANGLADESH

THE CYCLONIC STORM "**SITRANG**" **PRONOUNCED AS** "**SI-TRANG**" OVER COASTAL BANGLADESH MOVED NORTH-NORTHEASTWARD WITH A SPEED OF 56 KMPH DURING PAST 6 HOURS AND WEAKENED INTO A DEEP DEPRESSION AND LAY CENTERED AT 2100 UTC OF 24TH OCTOBER OVER BANGLADESH NEAR LATITUDE 24.4^oN AND LONGITUDE 91.0^oE, ABOUT 90 KM NORTHEAST OF DHAKA(41923), 60 KM NORTH-NORTHWEST OF AGARTALA(42724), AND 160 KM SOUTHWEST OF SHILLONG(42516).

IT IS VERY LIKELY TO CONTINUE TO MOVE NORTH-NORTHEASTWARDS AND WEAKEN INTO A DEPRESSION DURING NEXT 3 HOURS AND FURTHER INTO A WELL MARKED LOW PRESSURE AREA DURING SUBSEQUENT 6 HOURS.

Date/Time(UTC)	Position (Lat. ^⁰ N/ long. ^⁰ E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
24.10.22/2100	24.4/91.0	55-65 GUSTING TO 75	DEEP DEPRESSION
25.10.22/0000	25.1/91.4	45-55 GUSTING TO 65	DEPRESSION
25.10.22/0600	26.5/92.2	25-35 GUSTING TO 45	WELL MARKED LOW
			PRESSURE AREA

FORECAST TRACK AND INTENSITY ARE GIVEN BELOW:

CLOUDS ARE SEEN OVER NORTH BANGLADESH AND NORTHEASTERN STATES OF INDIA. ASSOCIATED BROKEN LOW/MEDIUM CLOUD. WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTIVE CLOUD OBSERVED BETWEEN LATITUDE 24.0°N & 28.0°N AND LONGITUDE 90.0°E & 95.0°E, BANGLADESH, ASSAM, TRIPURA, MEGHALAYA, AND BHUTAN. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEGREE CELSIUS.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED (MSW) IS ABOUT 30 KNOTS GUSTING TO 35 KNOTS AROUND SYSTEM CENTER. ESTIMATED CENTRAL PRESSURE IS 998 HPA. PREVAILING ROUGH TO VERY ROUGH SEA CONDITION OVER NORTH BAY OF BENGAL DURING NEXT 6 HOURS AND IMPROVE THEREAFTER.

REMARKS:

THE MADDEN JULIAN OSCILLATION INDEX (MJO) CURRENTLY LIES IN PHASE 6 WITH AMPLITUDE GREATER THAN 1. IT WOULD CONTINUE IN SAME PHASE DURING NEXT 5 DAYS WITH GRADUALLY INCREASING AMPLITUDE.

SEA SURFACE TEMPERATURE (SST) IS AROUND 30⁰C OVER NORTH CENTRAL & BAY OF BENGAL. THE OCEAN HEAT CONTENT (OHC) IS AROUND 70-80 KJ/CM² OVER THE SAME REGION. LOW LEVEL VORTICITY IS ABOUT 150-200 X10⁻⁶ S⁻¹ TO THE SOUTH OF SYSTEM CENTRE. VERTICALLY IT IS EXTENDING UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE IS AROUND 20 X10⁻⁵ S⁻¹ TO THE NORTHEAST OF SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS AROUND 20 X10⁻⁵ S⁻¹ TO THE NORTHEAST OF SYSTEM CENTRE. WIND SHEAR IS HIGH (30-40 KNOTS) AROUND THE SYSTEM CENTER AND IS HIGH (50 KNOT) TO THE NORTH OF THE SYSTEM ALONG THE PREDICTED TRACK.

A TROUGH IN MID-LATITUDE WESTERLIES IS ROUGHLY RUNNING ALONG 90°E UPTO 20°N. THE SYSTEM CONTINUED TO MOVE NORTH-NORTHEASTWARDS UNDER THE INFLUENCE OF THE TROUGH IN MID-LATITUDE WESTERLIES IN MIDDLE AND UPPER TROPOSPHERIC LEVELS, THE ANTI CYCLONE TO THE EAST OF THE SYSTEM CENTRE OVER MYANMAR AND THE SOUTH-SOUTHWESTERLY WINDS TO THE NORTH OF RIDGE ALONG 19°N.

THE ENVIRONMENTAL CONDITIONS AS WELL AS ALL NWP MODELS SUGGEST THAT THE SYSTEM IS VERY LIKELY TO CONTINUE TO MOVE NORTH-NORTHEASTWARDS AND WEAKEN INTO A DEPRESSION DURING NEXT 3 HOURS AND FURTHER INTO A WELL MARKED LOW PRESSURE AREA DURING SUBSEQUENT 6 HOURS.

NEXT BULLETIN WILL BE ISSUED AT 0300 UTC OF 25TH OCTOBER 2022.

(DR. SHRAVAN MUPPA) SCIENTIST-E, RSMC, NEW DELHI





SAT : INSAT-3D IMG IMG_TIR1_TEMP 10.8 um

L1C Mercator

24-10-2022/(2200 to 2226) GMT 25-10-2022/(0330 to 0356) IST



eep Depression Remnant clonic Storm 'Sitrang 28°N extent. 26°N 24°N 22°N 20°N 18°N 16°N 14°N 12°N 10°N 8°N 6°N 4°N 2°N 100°E 92°E 94°E 82°E 84°E 96°E 98°E 76°E 78°E 80°E 86°E 88°E 90°E 74°E 0 -20 -50 Celsius IMD, DELHI -30 10 -10 -70



Fishermen warning graphics