



REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI SPECIAL TROPICAL WEATHER OUTLOOK

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. 5 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0330 UTC OF 24.10.2022 BASED ON 0000 UTC OF 24.10.2022

SUBJECT: CYCLONIC STORM "SITRANG" (PRONOUNCED AS "SI-TRANG") OVER EASTCENTRAL AND ADJOINING AREAS OF WESTCENTRAL & NORTHWEST BAY OF BENGAL

"SITRANG" CYCLONIC STORM PRONOUNCED "SI-TRANG" THE AS OVER WESTCENTRAL ADJOINING EASTCENTRAL BAY OF BENGAL MOVED NORTH-& NORTHEASTWARDS WITH A SPEED OF 15 KMPH DURING PAST 06 HOURS AND LAY CENTERED AT 0000 UTC OF TODAY, THE 24TH OCTOBER OVER EASTCENTRAL AND ADJOINING AREAS OF WESTCENTRAL & NORTHWEST BAY OF BENGAL NEAR LATITUDE 17.8⁰N AND LONGITUDE 88.6⁰E, ABOUT 810 KM NORTH-NORTHWEST OF PORT BLAIR(43333), 430 KM SOUTH OF SAGAR ISLAND(42903) AND 580 KM SOUTH-SOUTHWEST OF BARISAL (41950).

IT IS VERY LIKELY TO CONTINUE TO MOVE NORTH-NORTHEASTWARDS AND INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 12 HOURS. CONTINUING TO MOVE NORTH-NORTHEASTWARDS THEREAFTER, IT IS VERY LIKELY TO CROSS BANGLADESH COAST BETWEEN TINKONA ISLAND AND SANDWIP CLOSE TO BARISAL AROUND 25TH OCTOBER EARLY MORNING.

FORECAST TRACK AND INTENSITY ARE GIVEN BELOW:

DATE/TIME(IUTC)	POSITION (LAT. [°] N/ LONG. [°] E	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
24.10.22/0000	17.8/88.6	70-80 GUSTING TO 90	CYCLONIC STORM
24.10.22/0600	18.8/89.0	80-90 GUSTING TO 100	SEVERE CYCLONIC STORM
24.10.22/1200	20.0/89.5	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
24.10.22/1800	21.2/90.0	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
25.10.22/0000	22.3/90.6	80-90 GUSTING TO 100	CYCLONIC STORM
25.10.22/1200	23.8/91.5	45-55 GUSTING TO 65	DEPRESSION
26.10.22/0000	25.6/92.7	25-35 GUSTING TO 45	LOW PRESSURE AREA

THE CONVECTION OVER WEST CENTRAL BAY OF BENGAL & NEIGHBOURHOOD HAS INTENSIFIED. INTENSITY OF THE SYSTEM IS CHARACTERISED AS T 2.5/2.5. THE SYSTEM CONTINUED SHOW SHEAR PATTERN AND MAXIMUM CONVECTION IS SHEARED TOWARDS NORTH OF SYSTEM CENTER. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER BAY OF BENGAL BET LATITUDE 16.0° N to 22.0° N LONGITUDE 86.0° E to 93.5° E. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEGREE CELSIUS.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED (MSW) IS ABOUT 40 KNOTS GUSTING TO 50 KNOTS AROUND SYSTEM CENTER. ESTIMATED CENTRAL PRESSURE IS 996 HPA. SEA CONDITION IS LIKELY TO BE VERY ROUGH TO HIGH OVER CENTRAL BAY OF BENGAL.

STORM SURGE WARNING:

- (I) TIDAL WAVE OF ABOUT 2.4 M HEIGHT ABOVE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE LOW LYING AREAS OF BANGLADESH COAST NEAR THE LANDFALL AREA AROUND THE TIME OF LANDFALL.
- (II) TIDAL WAVE OF ABOUT 1.0 M HEIGHT ABOVE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE LOW LYING AREAS OF WEST BENGAL (NORTH & SOUTH 24 PARGANAS) AROUND THE TIME OF LANDFALL.

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 29-30⁰C OVER CENTRAL & NORTH BOB. THE OCEAN HEAT CONTENT (OHC) IS AROUND 130 KJ/CM² OVER THE SAME REGION.

LOW LEVEL VORTICITY HAS INCREASED AND IS ABOUT 150 X10⁻⁶ S⁻¹ CLOSE TO THE EAST-SOUTHEAST OF SYSTEM CENTRE. VERTICALLY IT IS EXTENDING UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE IS AROUND 60 X10⁻⁵ S⁻¹ TO THE NORTHEAST OF SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS AROUND 60 X10⁻⁵ S⁻¹ TO THE NORTHEAST OF SYSTEM CENTRE. STRONG POLEWARD OUTFLOW IS SEEN IN UPPER LEVELS AS EXHIBITED IN SATELLITE IMAGERY. WIND SHEAR IS MODERATE (15-20 KNOTS) AROUND THE SYSTEM CENTER AND IS HIGH (20-30 KNOT) ALONG THE FORECAST TRACK.

A BUOY (23093) NEAR LAT. 16.3 DEG. N AND LONG. 88.0 DEG. E. REPORTED MEAN SEA LEVEL PRESSSURE 1001.5 HPA AND WIND OF 290⁰/19.4 KNOT.

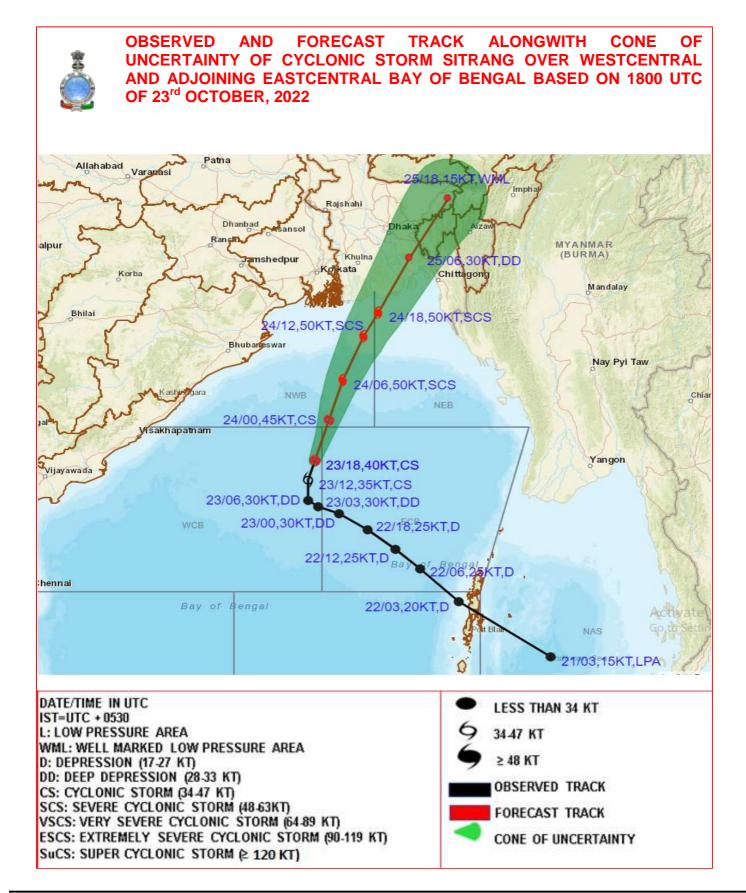
CURRENTLY, THE SYSTEM IS IN A FAVOURABLE ENVIRONMENT FOR FURTHER INTENSIFICATION INTO A MARGINALLY SEVERE CYCLONIC STORM DURING NEXT 12 HOURS. A TROUGH IN MID-LATITUDE WESTERLIES IS ROUGHLY RUNNING ALONG 83°E UPTO 20°N. THE SYSTEM CONTINUED TO MOVE NORTH-NORTHEASTWARDS UNDER THE INFLUENCE OF THIS TROUGH IN MID-LATITUDE WESTERLIES IN MIDDLE AND UPPER TROPOSPHERIC LEVELS, THE ANTI CYCLONE TO THE EAST OF THE SYSTEM CENTRE AND THE SOUTHWESTERLY WINDS ASSOCIATED WITH THE RIDGE ALONG 18[°]N.

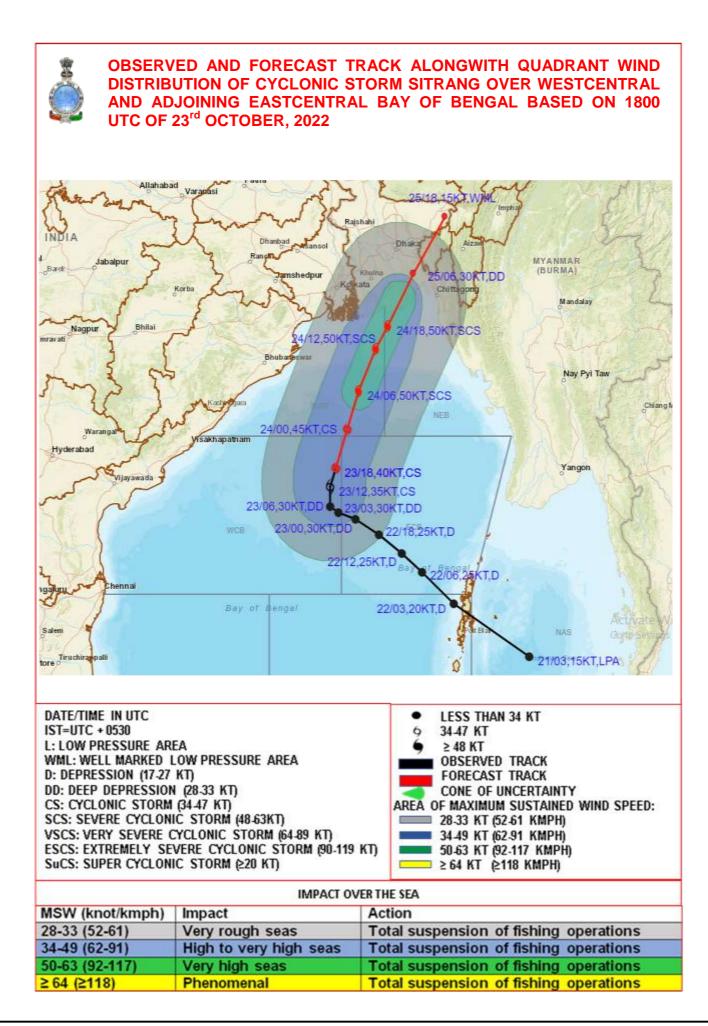
MOST OF THE MODELS ARE INDICATING LIKELY INTENSIFICATION INTO A MARGINALLY SEVERE CYCLONIC STORM DURING NEXT 12 HOURS. THE MODELS ARE ALSO INDICATING NORTH-NORTHEASTWARD MOVEMENT OF THE SYSTEM TOWARDS BANGLADESH COAST.

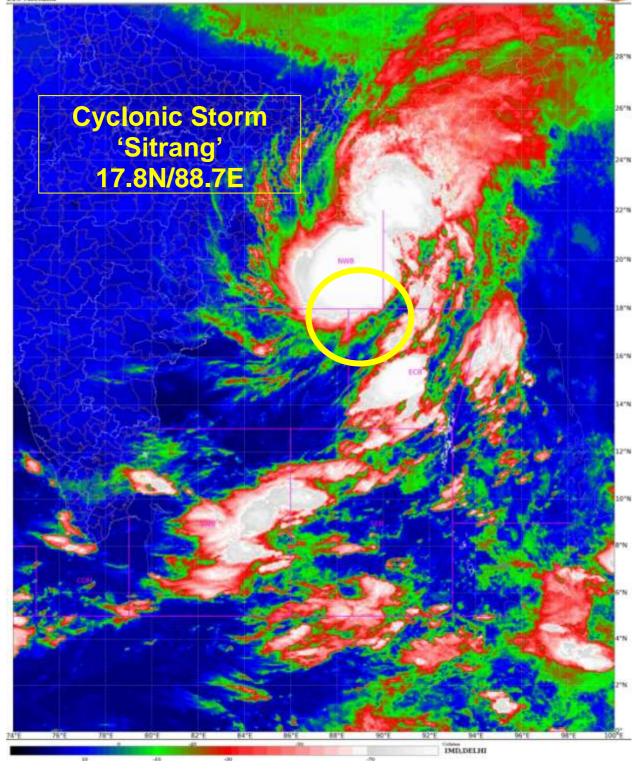
CONSIDERING ALL THE ABOVE, THE **CYCLONIC STORM** "**SITRANG**" OVER CENTRAL BAY OF BENGAL IS LIKELY TO MOVE NORTH-NORTHEASTWARD DURING NEXT 24 HOURS AND INTENSIFY INTO A **SEVERE CYCLONIC STORM** OVER NORTHWEST BAY OF BENGAL. THEREAFTER, IT WOULD CONTINUE TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST BETWEEN TINKONA ISLAND AND SANDWIP, CLOSE TO BARISAL (41964) AROUND 25TH OCTOBER EARLY MORNING (2100 UTC OF 24TH - 0000 UTC OF 25TH).

NEXT BULLETIN WILL BE ISSUED AT 0600 UTC OF 24TH OCTOBER 2022.

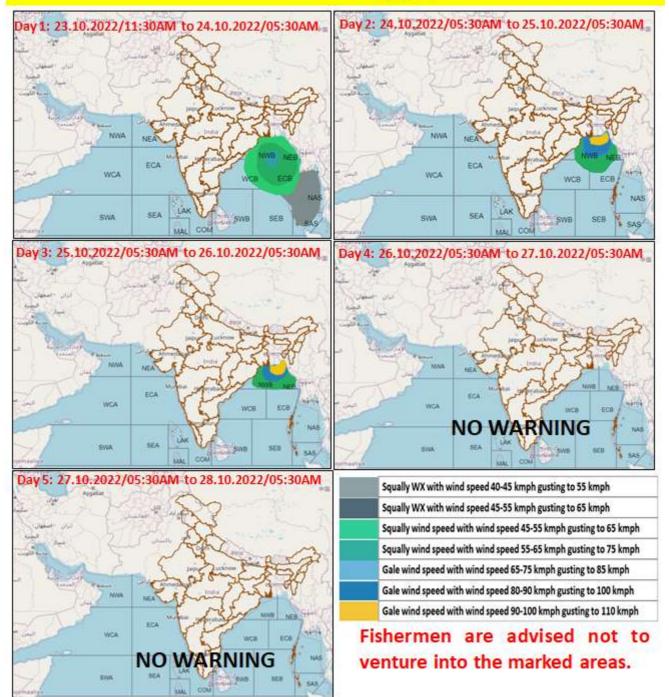
(DR RK JENAMANI) SC-F RSMC NEW DELHI

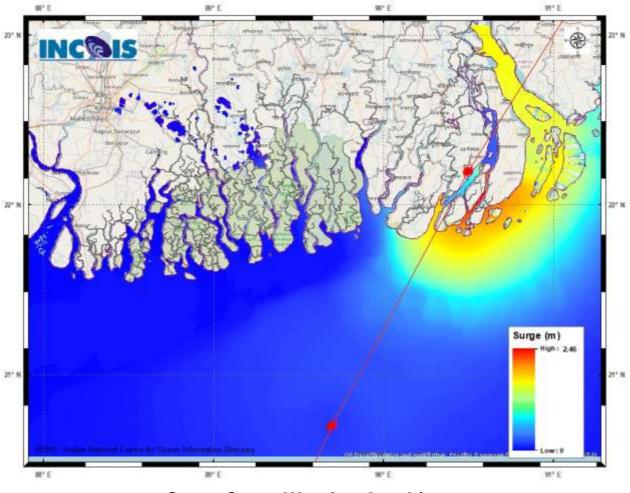












Storm Surge Warning Graphics