



REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI TROPICAL CYCLONE ADVISORY No. 9

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. 9 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1500 UTC OF 24.10.2022 BASED ON 1200 UTC OF 24.10.2022

SUB: CYCLONIC STORM "SITRANG" (PRONOUNCED AS "SI-TRANG") OVER NORTH BAY OF BENGAL (CYCLONE WARNING FOR WEST BENGAL COAST: ORANGE MESSAGE)

THE CYCLONIC STORM "SITRANG" PRONOUNCED AS "SI-TRANG" OVER NORTHWEST AND ADJOINING CENTRAL BAY OF BENGAL MOVED NORTH-NORTHEASTWARDS WITH A SPEED OF 28 KMPH DURING PAST 06 HOURS & LAY CENTERED AT 1200 UTC OF TODAY. THE 24TH OCTOBER OVER NORTH BAY OF BENGAL NEAR LATITUDE 20.7°N AND LONGITUDE 90.1°E, ABOUT 240 KM EAST-SOUTHEAST OF SAGAR ISLAND (42903) AND 230 KM SOUTH OF BARISAL (41950).

IT IS VERY LIKELY TO CONTINUÉ TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST BETWEEN TINKONA ISLAND AND SANDWIP (41964) CLOSE TO BARISAL (41950) DURING 1800 UTC TO 2100 UTC OF 24TH OCTOBER, 2022.

DATE/TIME(UTC)	POSITION (LAT. ⁰N/ LONG. ⁰E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
24.10.22/1200	20.7/90.1	80-90 GUSTING TO 100	CYCLONIC STORM
24.10.22/1800	22.0/90.5	80-90 GUSTING TO 100	CYCLONIC STORM
25.10.22/0000	23.3/91.0	50-60 GUSTING TO 70	DEEP DEPRESSION
25.10.22/0600	24.6/91.6	45-55 GUSTING TO 65	DEPRESSION
25.10.22/1200	25.9/92.5	25-35 GUSTING TO 45	LOW PRESSURE AREA

FORECAST TRACK AND INTENSITY ARE GIVEN BELOW:

INTENSITY OF THE SYSTEM IS CHARACTERISED AS T 3.0/3.0. THE CLOUDS ARE ORGANIZED IN SHEAR PATTERN. CLOUD MASS IS SHEARED TO THE NORTH OF THE SYSTEM CENTRE, OUTFLOW CLOUD BANDS WITH EMBEDDED ISOLATED INTENSE CONVECTION ARE SEEN OVER NORTH BANGLADESH AND NORTHEASTERN STATES OF INDIA. ASSOCIATED BROKEN LOW/MEDIUM CLOUD

WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTIVE CLOUD OBSERVED OVER BAY OF BENGAL BETWEEN LATITUDE 20.5^oN & 23.0^oN AND LONGITUDE 88.0^oE & 91.5^oE,

BANGLADESH, GANGETIC WEST BENGAL, TRIPURA AND MEGHALAYA. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEGREE CELSIUS.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED (MSW) IS ABOUT 45 KNOTS GUSTING TO 55 KNOTS AROUND SYSTEM CENTER. ESTIMATED CENTRAL PRESSURE IS 995 HPA. SEA CONDITION IS LIKELY TO BE HIGH OVER NORTH & ADJOINING CENTRAL BAY OF BENGAL.

STORM SURGE WARNING:

- (I) TIDAL WAVE OF ABOUT 2.0 M HEIGHT ABOVE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE LOW LYING AREAS OF BANGLADESH COAST NEAR THE LANDFALL AREA DURING NEXT 06 HOURS AND DECREASE THEREAFTER.
- (II) TIDAL WAVE OF ABOUT 0.5 TO 1.0 M HEIGHT ABOVE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE LOW LYING AREAS OF WEST BENGAL (NORTH & SOUTH 24 PARGANAS) DURING NEXT 06 HOURS AND DECREASE 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 29-30[°]C OVER NORTH CENTRAL & BAY OF BENGAL. THE OCEAN HEAT CONTENT (OHC) IS AROUND 80-90 KJ/CM² OVER THE SAME REGION. LOW LEVEL VORTICITY HAS INCREASED AND IS ABOUT 250 X10[°]S⁻¹ TO THE NORTH-NORTHEAST OF SYSTEM CENTRE. VERTICALLY IT IS EXTENDING UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE IS AROUND 30 X10⁻⁵S⁻¹ TO THE NORTHEAST OF SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS AROUND 40 X10⁻⁵S⁻¹ TO THE NORTHEAST OF SYSTEM CENTRE. STRONG POLEWARD AND EQUATORWARD OUTFLOW IS SEEN IN UPPER LEVELS AS EXHIBITED IN SATELLITE IMAGERY. TOTAL PRECIPITABLE WATER IMAGERY INDICATES WARM MOIST AIR INCURSION INTO THE CORE OF THE SYSTEM. WIND SHEAR IS MODERATE (15-20 KNOTS) AROUND THE SYSTEM CENTER AND IS HIGH (20-30 KNOT) TO THE NORTH OF THE SYSTEM ALONG THE PREDICTED TRACK.

A TROUGH IN MID-LATITUDE WESTERLIES IS ROUGHLY RUNNING ALONG 85°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 MODELS ARE ALSO INDICATING NORTH-NORTHEASTWARD MOVEMENT OF THE SYSTEM AND CROSSING OVER BANGLADESH COAST NEAR 22.0N/90E DURING 1800 UTC TO 2100 UTC OF 24TH OCTOBER, 2022.

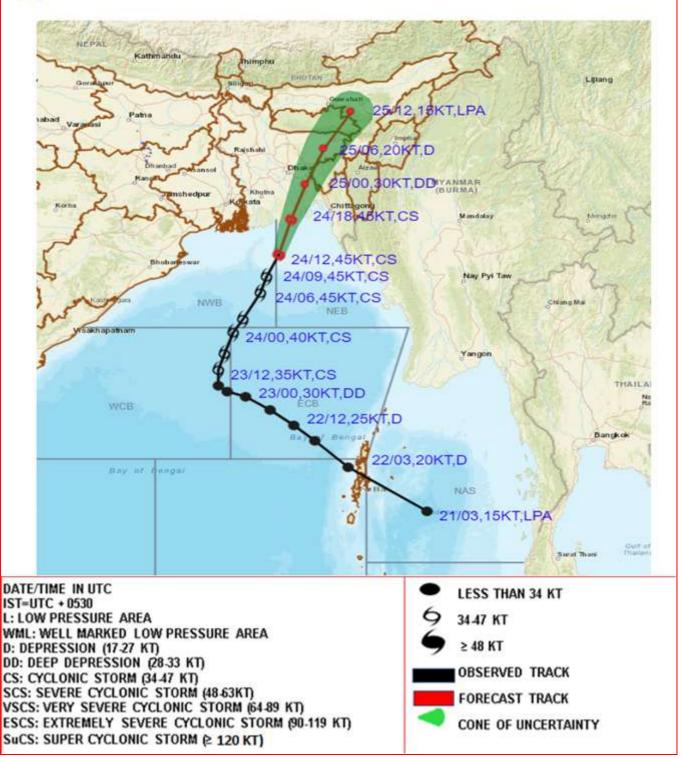
CONSIDERING ALL THE ABOVE, THE **CYCLONIC STORM** "**SITRANG**" IS VERY LIKELY TO CONTINUE TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST BETWEEN TINKONA ISLAND AND SANDWIP CLOSE TO BARISAL (41950) DURING 1800 UTC TO 2100 UTC OF 24TH OCTOBER, 2022.

NEXT BULLETIN WILL BE ISSUED AT 1700 UTC OF 24TH OCTOBER 2022.

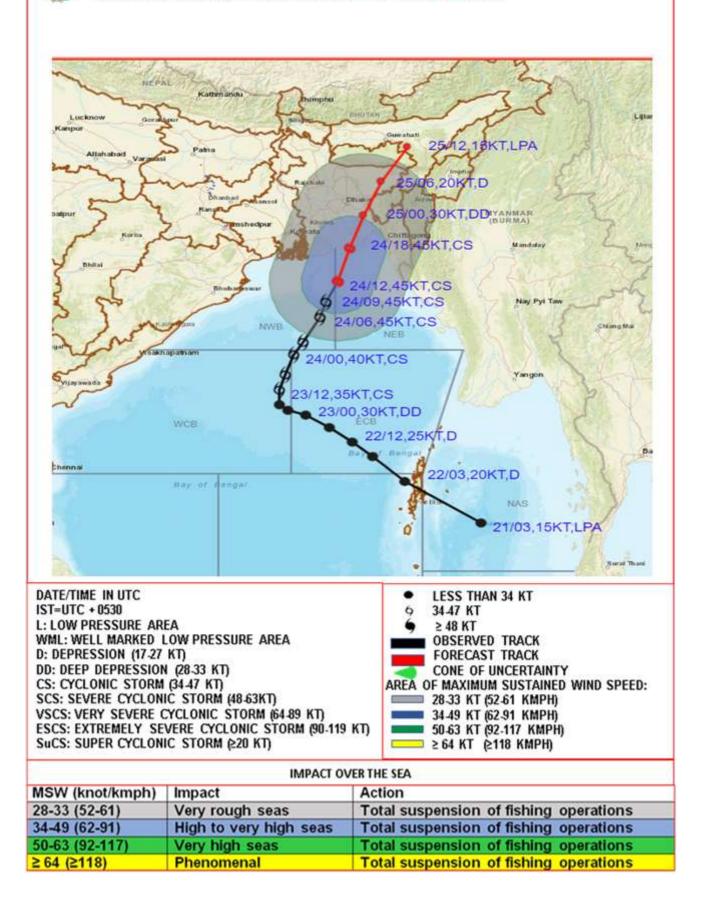
(RK JENAMANI) SCIENTIST-F RSMC NEW DELHI



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM SITRANG OVER NORTHWEST AND ADJOINING NORTHEAST BAY OF BENGAL BASED ON 1200 UTC OF 24th OCTOBER, 2022

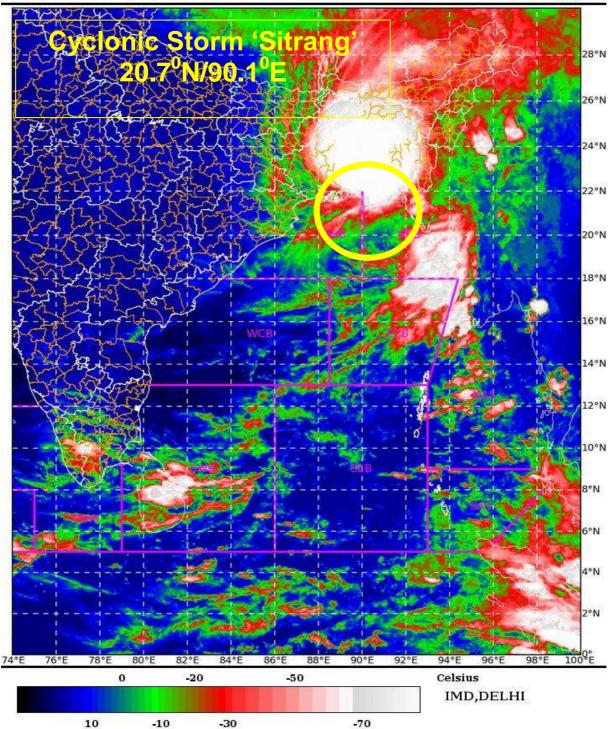


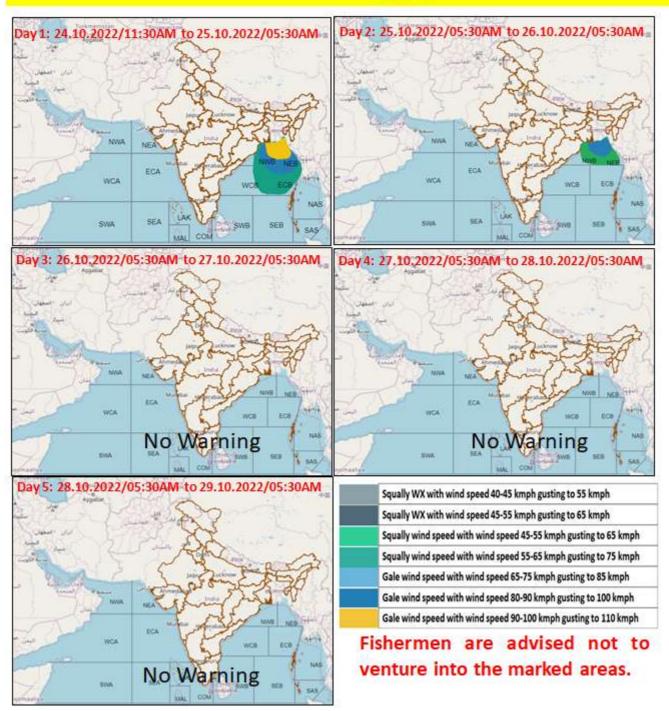
OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM SITRANG OVER NORTHWEST AND ADJOINING NORTHEAST BAY OF BENGAL BASED ON 1200 UTC OF 24th OCTOBER, 2022



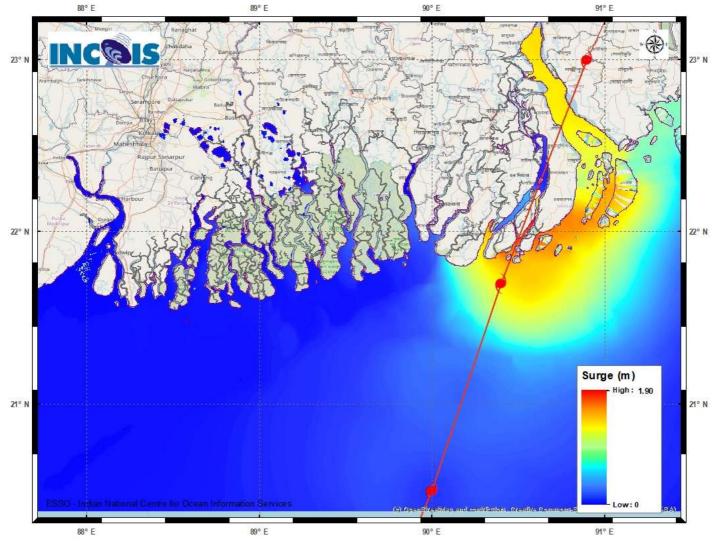
SAT : INSAT-3D IMG IMG_TIR1_TEMP 10.8 um L1C Mercator 24-10-2022/(1300 to 1326) GMT 24-10-2022/(1830 to 1856) IST







Fishermen warning graphics



Storm Surge Warning Graphics