



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

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 24.10.2023

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. 31 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 2000 UTC OF 24.10.2023 BASED ON 1800 UTC OF 24.10.2023.

SUB: SEVERE CYCLONIC STORM "HAMOON" (PRONOUNCED AS HAMOON) OVER NORTHEAST BAY OF BENGAL.

SEVERE CYCLONIC STORM "HAMOON" (PRONOUNCED AS HAMOON) OVER NORTHEAST BAY OF BENGAL

THE SEVERE CYCLONIC STORM "HAMOON" (PRONOUNCED AS HAMOON) OVER NORTHEAST BAY OF BENGAL MOVED NEARLY NORTHEASTWARDS WITH A SPEED OF 19 KMPH DURING PAST 6 HOURS AND LAY CENTERED AT 1800 UTC OF TODAY, THE 24TH OCTOBER OVER THE SAME REGION, NEAR LATITUDE 21.6°N AND LONGITUDE 91.6°E, ABOUT 420 KM EAST-SOUTHEAST OF DIGHA (WEST BENGAL, 42901), 150 KM EAST-SOUTHEAST OF KHEPUPARA (BANGLADESH, 41984) AND 80 KM SOUTH-SOUTHWEST OF CHITTAGONG (BANGLADESH, 41977).

LANDFALL PROCESS HAS COMMENCED. THE SEVERE CYCLONIC STORM IS VERY LIKELY TO MOVE NORTHEASTWARDS, WEAKENED INTO A CYCLONIC STORM AND CROSS BANGLADESH COAST TO THE SOUTH OF CHITTAGONG WITHIN A FEW HOURS WITH WIND SPEED OF 80 TO 90 KMPH GUSTING TO 100 KMPH.

FORECAST TRACK AND INTENSITY ARE GIVEN BELOW:

DATE/TIME (UTC)	POSITION (LAT. ºN/ LONG. ºE)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
24.10.23/1800	21.6/91.6	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
25.10.23/0000	22.2/92.2	80-90 GUSTING TO 100	CYCLONIC STORM
25.10.23/0600	22.8/92.7	60-70 GUSTING TO 80	CYCLONIC STORM
25.10.23/1200	23.4/93.2	40-50 GUSTING TO 60	DEPRESSION
25.10.23/1800	24.0/93.7	25-35 GUSTING TO 45	LOW PRESSURE AREA

AS PER INSAT 3D IMAGERY, THE INTENSITY OF THE SYSTEM IS CHARACTERISED AS T3.5/C.I.3.5. IT SHOWS SHEAR PATTERN. ASSOCIATED BROKEN LOW TO MEDIUM CLOUDS WITH INTENSE TO VERY INTENSE CONVECTION LIES OVER NORTH EAST BAY OF BENGAL AND ADJOING SOUTH BANGLADESH BETWEEN LAT 20.5N TO 24.5N LONG 90.5E TO 94.5E. MINIMUM CTT - 90 DEG CEL.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED IS 50 KNOTS GUSTING TO 60 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 994 HPA.

WIND GUIDANCE (MAP ENCLOSED):

- NORTHEAST BAY OF BENGAL:
 - GALE WIND SPEED REACHING 90-100 KMPH GUSTING TO 110 KMPH IS LIKELY TO DECREASE GRADUALLY BECOMING 80-90 KMPH GUSTING TO 100 KMPH BY 0300 UTC OF 25TH AND WOULD DECREASE THEREAFTER.
- NORTHWEST BAY OF BENGAL:
 - GALE WIND SPEED REACHING 80-90 KMPH GUSTING TO 100 KMPH IS PREVAILING AND LIKELY TO DECREASE GRADUALLY THEREAFTER BECOMING SQUALLY WIND SPEED REACHING 50-60 KMPH GUSTING TO 70 KMPH BY 0300 UTC OF 25TH AND WOULD DECREASE THEREAFTER.
- ADJOINING EASTCENTRAL BAY OF BENGAL: SQUALLY WIND SPEED REACHING 50-60 KMPH GUSTING TO 70 KMPH IS PREVAILING AND WOULD GRADUALLY DECREASE FROM 06 UTC OF 25TH.
- ALONG & OFF WEST BENGAL, BANGLADESH AND NORTH MYANMAR COASTS:
 SQUALLY WIND SPEED REACHING 40-50 KMPH GUSTING TO 60 KMPH IS LIKELY TO
 PREVAIL ALONG & OFF WEST BENGAL COAST TILL 0300 UTC OF 25TH.
 GALE WIND SPEED REACHING 80-90 KMPH GUSTING TO 100 KMPH IS PREVAILING
 ALONG & OFF BANGLADESH AND ADJOINING NORTH MYANMAR COAST AND CONTINUE
 0000 UTC OF 25TH AND DECREASE THEREAFTER. SQUALLY WIND SPEED REACHING 5565 KMPH GUSTING TO 75 KMPH LIKELY ALONG & OFF REMAINING PARTS OF NORTH
 MYANMAR COAST DURING THE SAME PERIOD AND DECREASE THEREAFTER.

MIZORAM, TRIPURA, SOUTH ASSAM AND MANIPUR:

SQUALLY WIND SPEED REACHING **40-50 KMPH GUSTING TO 60 KMPH** IS LIKELY TO PREVAIL OVER MIZORAM AND TRIPURA AND STRONG WIND SPEED REACHING **30-40 KMPH GUSTING TO 50 KMPH** OVER SOUTH ASSAM & MANIPUR ON 25^{TH} OCTOBER.

(III) SEA CONDITION

- NORTHEAST BAY OF BENGAL AND ALONG & OFF BANGLADESH & ADJOINING NORTH MYANMAR COASTS:
 - VERY HIGH SEA CONDITIONS ARE PREVAILING AND LIKELY TO CONTINUE TILL 0300 UTC OF 25TH AND WOULD BECOME HIGH THEREAFTER TILL 0600 UTC OF 25TH AND VERY ROUGH TO ROUGH BY 1200 UTC OF 25TH OCTOBER.
- NORTHWEST BAY OF BENGAL:
 - **HIGH TO VERY ROUGH** SEA CONDITIONS ARE PREVAILING AND LIKELY TO CONTINUE TILL 0300 UTC OF 25^{TH} AND WOULD BECOME **ROUGH** TILL 1200 UTC OF 25^{TH} AND IMPROVE THEREAFTER.
- ADJOINING EASTCENTRAL BAY OF BENGAL: VERY ROUGH TO ROUGH SEA CONDITION IS LIKELY TO PREVAIL TILL 0600 UTC OF 25TH OCTOBER AND IMPROVE GRADUALLY THEREAFTER.
- ALONG & OFF WEST BENGAL COASTS: ROUGH TO VERY ROUGH SEA CONDITIONS IS LIKELY TO PREVAIL TILL 0300 UTC OG 25TH OCTOBER.

(IV) FISHERMEN WARNING (GRAPHICS ATTACHED):

FISHERMEN ARE ADVISED NOT TO VENTURE INTO

- **❖ NORTH BAY OF BENGAL AND ALONG & OFF WEST BENGAL, BANGLADESH AND NORTH MYANMAR COASTS** TILL 25TH OCTOBER.
- ❖ ADJOINING AREAS OF EASTCENTRAL BAY OF BENGAL TILL 0300 UTC OF 25TH OCTOBER.

SYSTEM IS UNDER CONTINUOUS SURVEILLANCE AND THE NEXT BULLETIN WILL BE ISSUED AT 0000 UTC OF 25TH OCTOBER, 2023.

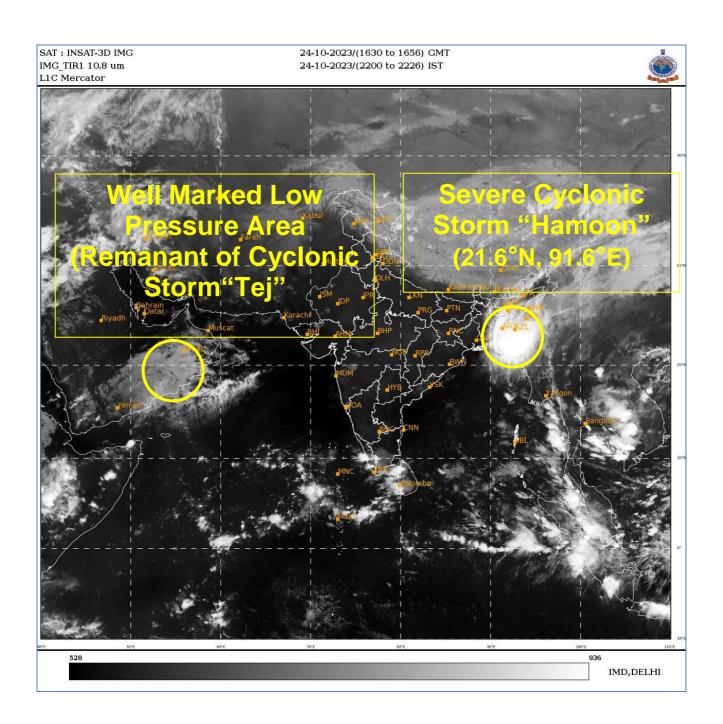
REMARKS:

BAY OF BENGAL:

SEA SURFACE TEMPERATURE IS 28-30°C OVER NORTH BAY OF BENGAL. THE LOW LEVEL POSITIVE VORTICITY HAS DECREASED IN PAST 03 HOURS AND IS AROUND 150 X10-6S-1 TO THE SOUTH OF SYSTEM CENTER. THE POSITIVE LOW LEVEL CONVERGENCE HAS DECREASED FURTHER AND IS ABOUT 05-10X10-5S-1 TO THE SOUTHEAST OF SYSTEM CENTRE. POSITIVE UPPER LEVEL DIVERGENCE IS HAS DECREASED AND IS ABOUT 10 X10-5 S-1 ALONG THE FORECAST TRACK OF SYSTEM. IT IS NORTHEAST-SOUTHWEST ORIENTED. THE SYSTEM HAS ENTERED INTO A ZONE OF HIGH (> 30 KNOTS) WIND SHEAR. THE SYSTEM IS MOVING FASTER AND ALSO EXPECTED TO MOVE FAST UNDER THE INFLUENCE OF UPPER TROPOSPHERIC WESTERLY TROUGH LYING TO THE WEST OF THE SYSTEM OVER CENTRAL AND NORTH INDIA.

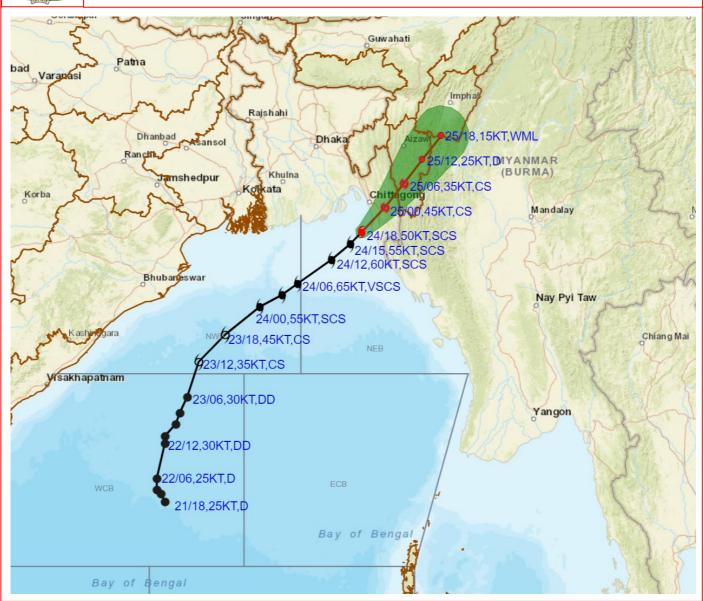
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(TRISANU BANIK) SCIENTIST-C RSMC, NEW DELHI





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF SEVERE CYCLONIC STORM "HAMOON" OVER NORTHEAST BAY OF BENGAL BASED ON 1800 UTC (2330 IST) OF 24TH OCTOBER 2023.



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 (90-119 KT)

SuCS: SUPER CYCLONIC STORM (€ 120 KT)

LESS THAN 34 KT
9 34.47 KT
≥ 48 KT
OBSERVED TRACK
FORECAST TRACK
CONE OF UNCERTAINTY

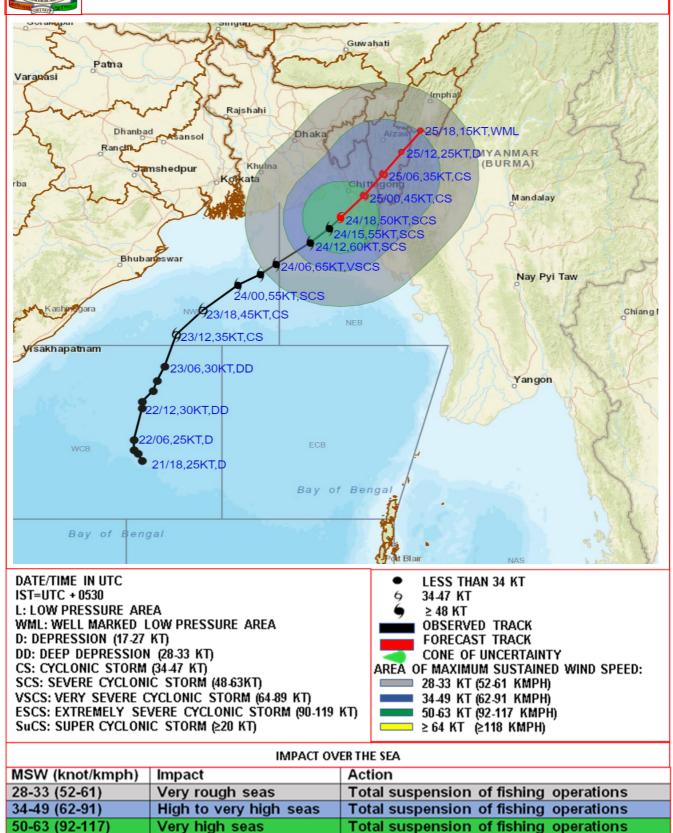
Forecast	DISTANCE(KM) AND DIRECTION FROM STATIONS			
Date and Time	PARADIP (CWR)	DIGHA	KHEPUPARA	CHITTAGONG (AMBAGAN)
25.10.23/1800	830, ENE	690, ENE	420, ENE	270, NE



≥ 64 (≥118)

Phenomenal

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM "HAMOON" OVER NORTHEAST BAY OF BENGAL BASED ON 1800 UTC (2330 IST) OF 24TH OCTOBER 2023.



Total suspension of fishing operations

STORM SURGE GUIDANCE FOR BANGLADESH:

Storm surge of about 1.0-1.5 metre height above the astronomical tide is likely to inundate low lying areas between Khepupara and Chittagong (Bangladesh) around the time of landfall.

