



**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. 30 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1800 UTC OF 24.10.2023 BASED ON 1500 UTC OF 24.10.2023.**

**SUB: (A) DEPRESSION [REMNANT OF CYCLONIC STORM “TEJ” (PRONOUNCED AS TEJ)] WEAKENED INTO WELL MARKED LOW PRESSURE AREA OVER YEMEN**

**(B) SEVERE CYCLONIC STORM “HAMOON” (PRONOUNCED AS HAMOON) OVER NORTHEAST BAY OF BENGAL.**

**(A) DEPRESSION [REMNANT OF CYCLONIC STORM “TEJ” (PRONOUNCED AS TEJ)] WEAKENED INTO WELL MARKED LOW PRESSURE AREA OVER YEMEN**

**THE DEPRESSION [REMNANT OF THE CYCLONIC STORM “TEJ” (PRONOUNCED AS TEJ)] OVER YEMEN MOVED WEST-NORTHWESTWARD DURING PAST 6 HOURS AND WEAKENED INTO A WELL MARKED LOW PRESSURE AREA OVER THE SAME REGION AT 1500 UTC OF TODAY, THE 24<sup>TH</sup> OCTOBER.**

**IT IS VERY LIKELY TO MOVE FURTHER WEST-NORTHWESTWARDS AND WEAKEN INTO A LOW PRESSURE AREA DURING NEXT 6 HOURS.**

AS PER INSAT 3D IMAGERY, CLOUD MASS HAS FURTHER DISORGANISED. MODERATE TO INTENSE CONVECTION LIES OVER EAST YEMEN, OMAN AND ADJOINING SOUTHEAST SAUDI ARABIA.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 1004 HPA.

**WARNINGS:**

**(I) WIND WARNING (WARNING GRAPHICS ENCLOSED):**

• **WESTCENTRAL ARABIAN SEA:**

**SQUALLY WIND SPEED REACHING 40-50 KMPH GUSTING TO 60 KMPH IS LIKELY TO PREVAIL DURING NEXT 03 HOURS AND IMPROVE GRADUALLY THEREAFTER.**

**(II) SEA CONDITION**

• **WESTCENTRAL ARABIAN SEA:**

**ROUGH CONDITION IS LIKELY TO PREVAIL DURING NEXT 03 HOURS AND IMPROVE GRADUALLY THEREAFTER.**

**(III) FISHERMEN WARNING (GRAPHICS ATTACHED):**

**FISHERMEN ARE ADVISED NOT TO VENTURE INTO WESTCENTRAL ARABIAN SEA DURING NEXT 06 HOURS.**

**THIS IS THE LAST BULLETIN FOR THIS SYSTEM.**

**(B) 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 EAST-NORTHEASTWARDS WITH A SPEED OF 23 KMPH DURING PAST 6 HOURS AND LAY CENTERED AT 1500UTC OF TODAY, THE 24<sup>TH</sup> OCTOBER OVER THE SAME REGION, NEAR LATITUDE 21.3°N AND LONGITUDE 91.3°E, ABOUT 390 KM EAST-SOUTHEAST OF DIGHA (WEST BENGAL, 42901), 130 KM EAST-SOUTHEAST OF KHEPUPARA (BANGLADESH, 41984) AND 130 KM SOUTH-SOUTHWEST OF CHITTAGONG (BANGLADESH, 41977).

IT IS LIKELY TO FURTHER WEAKEN GRADUALLY INTO A CYCLONIC STORM DURING NEXT 09 HOURS. IT IS LIKELY TO MOVE NORTHEASTWARDS AND CROSS BANGLADESH COAST TO THE SOUTH OF CHITTAGONG AROUND 2100 UTC OF 24<sup>TH</sup> OCTOBER AS A **CYCLONIC STORM WITH WIND SPEED OF 80 TO 90 KMPH GUSTING TO 100 KMPH. LANDFALL PROCESS IS LIKELY TO COMMENCE AROUND 1800 UTC TODAY, THE 24<sup>TH</sup> OCTOBER 2023.**

**FORECAST TRACK AND INTENSITY ARE GIVEN BELOW:**

DATE/TIME (UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
24.10.23/1500	21.3/91.3	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
24.10.23/1800	21.6/91.6	95-105 GUSTING TO 115	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
26.10.23/1800	24.0/93.7	25-35 GUSTING TO 45	LOW PRESSURE AREA

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%  
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AS PER INSAT 3D IMAGERY, THE INTENSITY OF THE SYSTEM IS CHARACTERISED AS T3.5/C.I.4.0. IT SHOWS SHEAR PATTERN. CONVECTIVE CLOUDS ARE SHEARED TOWARDS NORTHEAST AND LIE OVER NORTHEAST BAY OF BENGAL, SOUTHEAST BANGLADESH AND ADJOINING MYANMAR, MIZORAM AND TRIPURA. MULTISATELLITE WINDS INDICATE STRONGER WINDS IN EASTERN SECTOR.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED IS 55 KNOTS GUSTING TO 65 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 989 HPA.

#### **WIND GUIDANCE (MAP ENCLOSED):**

- **NORTHEAST BAY OF BENGAL:**

**GALE WIND SPEED REACHING 105-115 KMPH GUSTING TO 125 KMPH IS PREVAILING AND LIKELY TO CONTINUE DURING NEXT 03 HOURS. IT WOULD DECREASE GRADUALLY THEREAFTER BECOMING GALE WIND SPEED REACHING 95-105 KMPH GUSTING TO 115 KMPH BY 1800 UTC OF 24<sup>TH</sup> AND 80-90 KMPH GUSTING TO 90 KMPH BY 0000 UTC OF 25<sup>TH</sup> AND WOULD DECREASE THEREAFTER.**

- **NORTHWEST BAY OF BENGAL:**

**GALE WIND SPEED REACHING 105-115 KMPH GUSTING 125 KMPH IS PREVAILING AND LIKELY TO CONTINUE DURING NEXT 03 HOURS. IT WOULD DECREASE GRADUALLY THEREAFTER BECOMING GALE WIND SPEED REACHING 80-90 KMPH GUSTING TO 100 KMPH BY 1800 UTC OF 24<sup>TH</sup>, AND SQUALLY WIND SPEED REACHING 50-60 KMPH GUSTING TO 70 KMPH BY 1200 UTC OF 25<sup>TH</sup> 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 0300 UTC OF 25<sup>TH</sup>.**

- **ALONG & OFF WEST BENGAL, BANGLADESH AND NORTH MYANMAR COASTS:**

**SQUALLY WIND SPEED REACHING 40-50 KMPH GUSTING TO 60 KMPH WOULD CONTINUE TO PREVAIL ALONG & OFF WEST BENGAL COAST TILL 0000 UTC OF 25<sup>TH</sup>.**

**GALE WIND SPEED REACHING 70-80 KMPH GUSTING TO 90 KMPH IS PREVAILING ALONG & OFF BANGLADESH COAST. IT WOULD GRADUALLY INCREASE BECOMING 80-90 KMPH GUSTING TO 100 KMPH ALONG & OFF BANGLADESH AND ADJOINING NORTH MYANMAR COAST FROM 1800 UTC OF TODAY 24<sup>TH</sup> AND 55-65 KMPH GUSTING TO 75 KMPH ALONG & OFF REMAINING PARTS OF NORTH MYANMAR COAST FROM 1800 UTC OF TODAY, THE 24<sup>TH</sup> OCTOBER TILL 0000 UTC OF 25<sup>TH</sup> OCTOBER. SQUALLY WINDS SPEED REACHING 55-65 KMPH GUSTING TO 75 KMPH IS LIKELY 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<sup>TH</sup> OCTOBER.**

#### **STORM SURGE GUIDANCE FOR BANGLADESH COAST:**

STORM SURGE OF ABOUT 1.0-1.5 METRE HEIGHT ABOVE THE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE LOW LYING AREAS OF SOUTHEAST BANGLADESH BETWEEN KHEPUPARA AND COX'S BAZAR WITH PEAK SURGE OVER CHITTAGONG – COX'S BAZAR AREA AROUND THE TIME OF LANDFALL.

## 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 1800 UTC OF 24<sup>TH</sup> AND WOULD BECOME HIGH THEREAFTER TILL 0300 UTC OF 25<sup>TH</sup> AND VERY ROUGH TO ROUGH TILL 1200 UTC OF 25<sup>TH</sup> OCTOBER.
- **NORTHWEST BAY OF BENGAL:**  
**HIGH TO VERY HIGH CONDITIONS** ARE PREVAILING AND LIKELY TO CONTINUE TILL 1800 UTC OF 24<sup>TH</sup> AND WOULD BECOME VERY ROUGH TO ROUGH THEREAFTER TILL 0300 UTC OF 25<sup>TH</sup> AND WOULD GRADUALLY IMPROVE THEREAFTER.
- **ADJOINING EASTCENTRAL BAY OF BENGAL: VERY ROUGH TO ROUGH SEA** CONDITION LIKELY TILL 0000 UTC OF 25<sup>TH</sup> OCTOBER. IT IS LIKELY TO IMPROVE GRADUALLY THEREAFTER.
- **ALONG & OFF WEST BENGAL COASTS: ROUGH TO VERY ROUGH SEA** CONDITIONS TILL 0000 UTC OF 25<sup>TH</sup> OCTOBER.

## REMARKS:

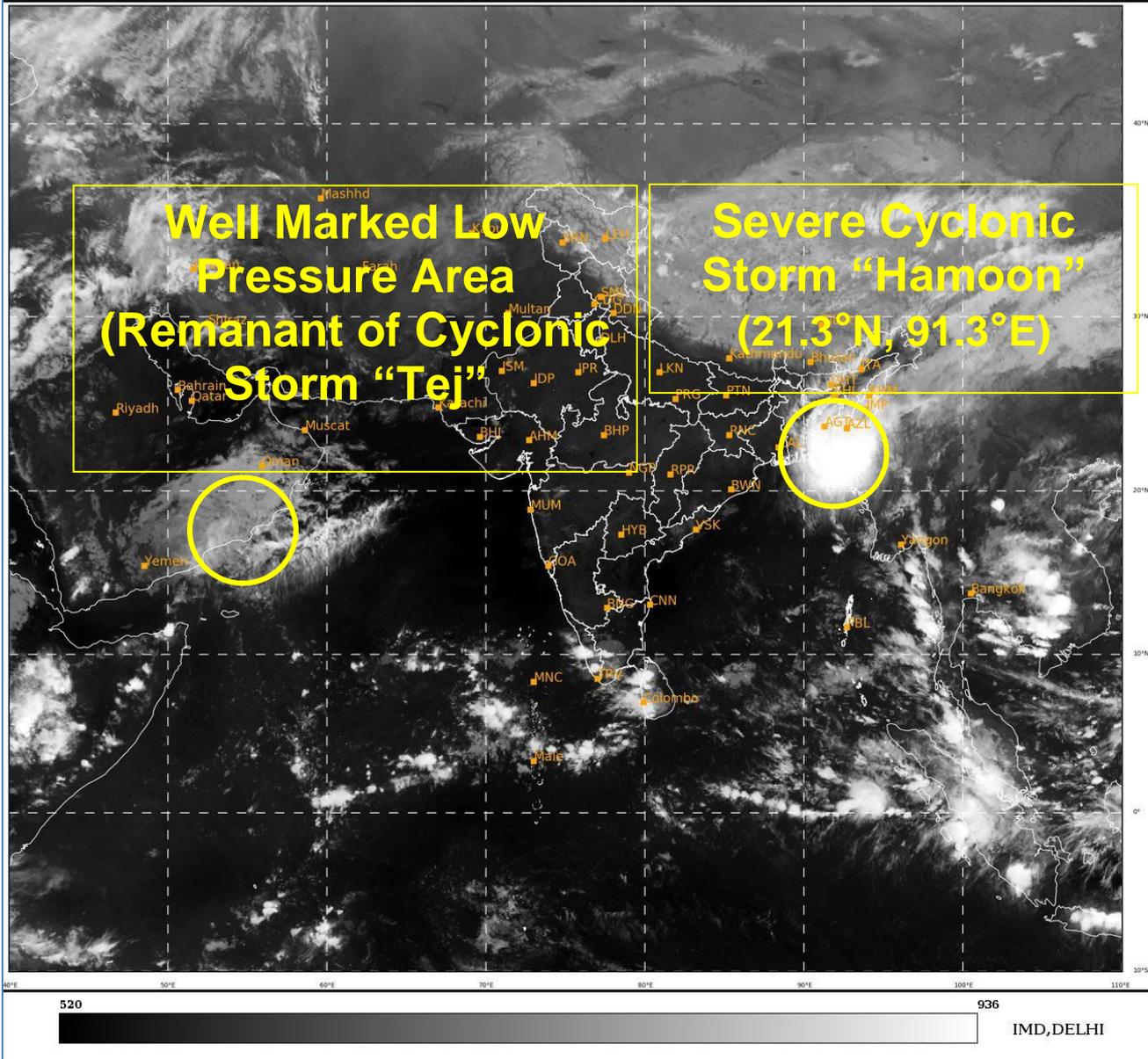
### BAY OF BENGAL:

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  $150 \times 10^{-6} \text{S}^{-1}$  TO THE SOUTHEAST OF SYSTEM CENTER. THE POSITIVE LOW LEVEL CONVERGENCE HAS DECREASED FURTHER AND IS ABOUT  $05-10 \times 10^{-5} \text{S}^{-1}$  TO THE SOUTHEAST OF SYSTEM CENTRE. POSITIVE UPPER LEVEL DIVERGENCE IS HAS DECREASED AND IS ABOUT  $10 \times 10^{-5} \text{S}^{-1}$  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 HAS THUS ENTERED INTO UNFAVOURABLE ENVIRONMENT CONDITIONS AND IS THUS GRADUALLY WEAKENING. 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 AND EMBEDDED JET STREAM WITH CORE WIND SPEED OF 100-120 KNOTS OVER THE HEAD BAY OF BENGAL AND ADJOINING NORTHEAST INDIA AND BANGLADESH. UNDER THE INFLUENCE OF ABOVE TROUGH AND ASSOCIATED JET STREAM ALONGWITH OTHER FAVOURABLE ENVIRONMENTAL CONDITIONS LIKE LOW LEVEL VORTICITY AND MODERATE VERTICAL WIND SHEAR AND WARM SEA. HOWEVER, AS THE SYSTEM HAS ENTERED INTO HIGH VERTICAL WIND SHEAR ZONE UNDER THE INFLUENCE OF ABOVE TROUGH, INTENSIFICATION HAS BEEN RESTRICTED SINCE THEN AND IT IS EXPECTED TO WEAKEN GRADUALLY. UPPER TROPOSPHERIC RIDGE RUNS ALONG 20°N. AS THE SYSTEM LIES TO THE NORTH OF RIDGE, IT IS LIKELY TO MOVE NORTHEASTWARDS.

MODELS ARE IN AGREEMENT THAT SEVERE CYCLONIC STORM "HAMOON" WOULD CROSS BANGLADESH COAST. THERE IS ALSO CONSENSUS AMONG VARIOUS MODELS WITH RESPECT TO WEAKENING BEFORE LANDFALL.

CONSIDERING ALL THESE, THE SEVERE CYCLONIC STORM "HAMOON" OVER NORTHEAST BAY OF BENGAL IS VERY LIKELY TO WEAKEN FURTHER WHILE MOVING NORTHEASTWARDS AND CROSS BANGLADESH COAST TO THE SOUTH OF CHITTAGONG AROUND 2100 UTC OF 24<sup>TH</sup> OCTOBER AS A **CYCLONIC STORM WITH WIND SPEED OF 80-90 KMPH GUSTING TO 100 KMPH.**

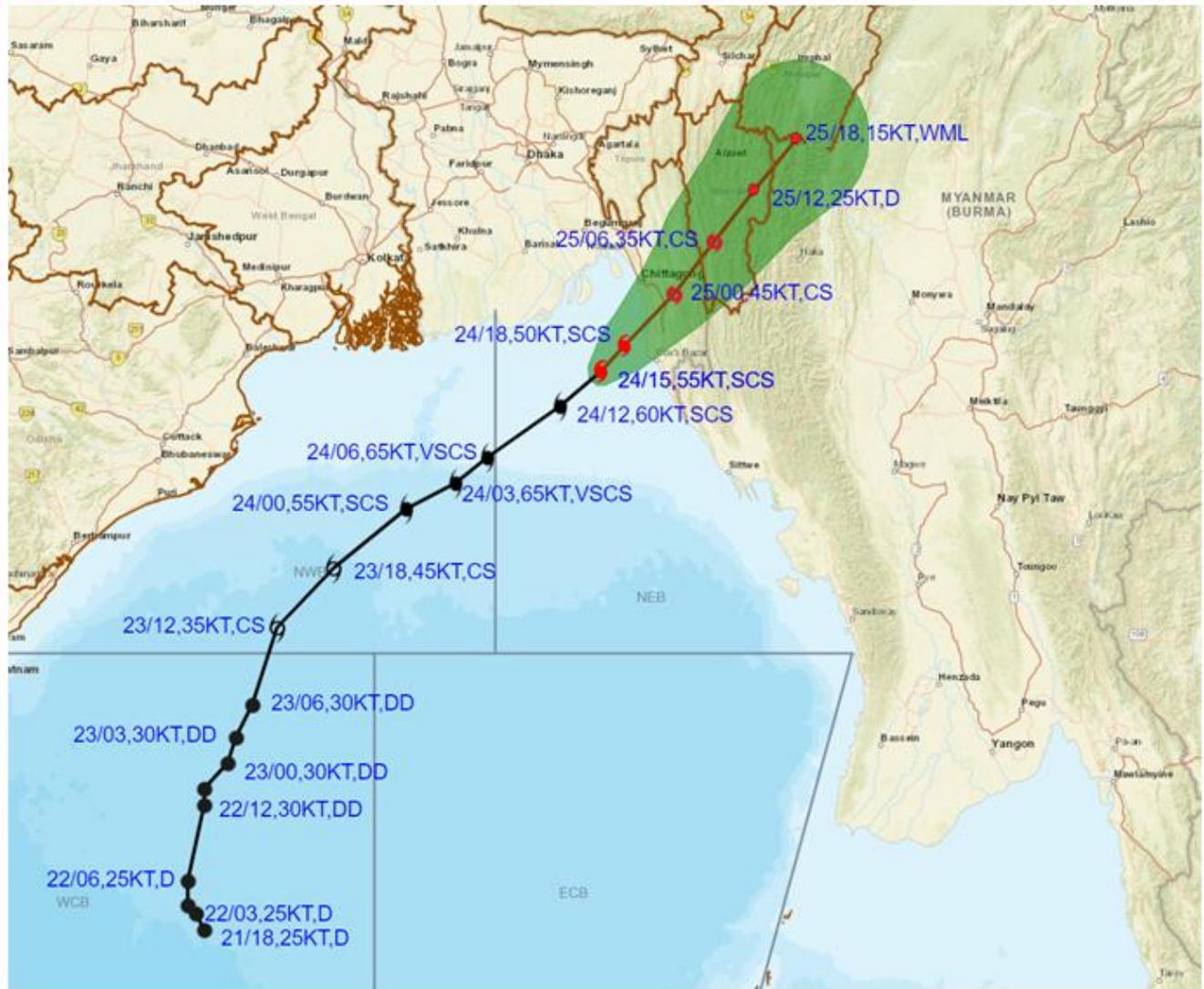
(TRISANU BANIK)  
SCIENTIST-C  
RSMC, NEW DELHI



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%  
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**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF SEVERE CYCLONIC STORM "HAMOON" OVER NORTHEAST BAY OF BENGAL BASED ON 1500 UTC (2030 IST) OF 24<sup>TH</sup> 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 ( $\geq$  120 KT)

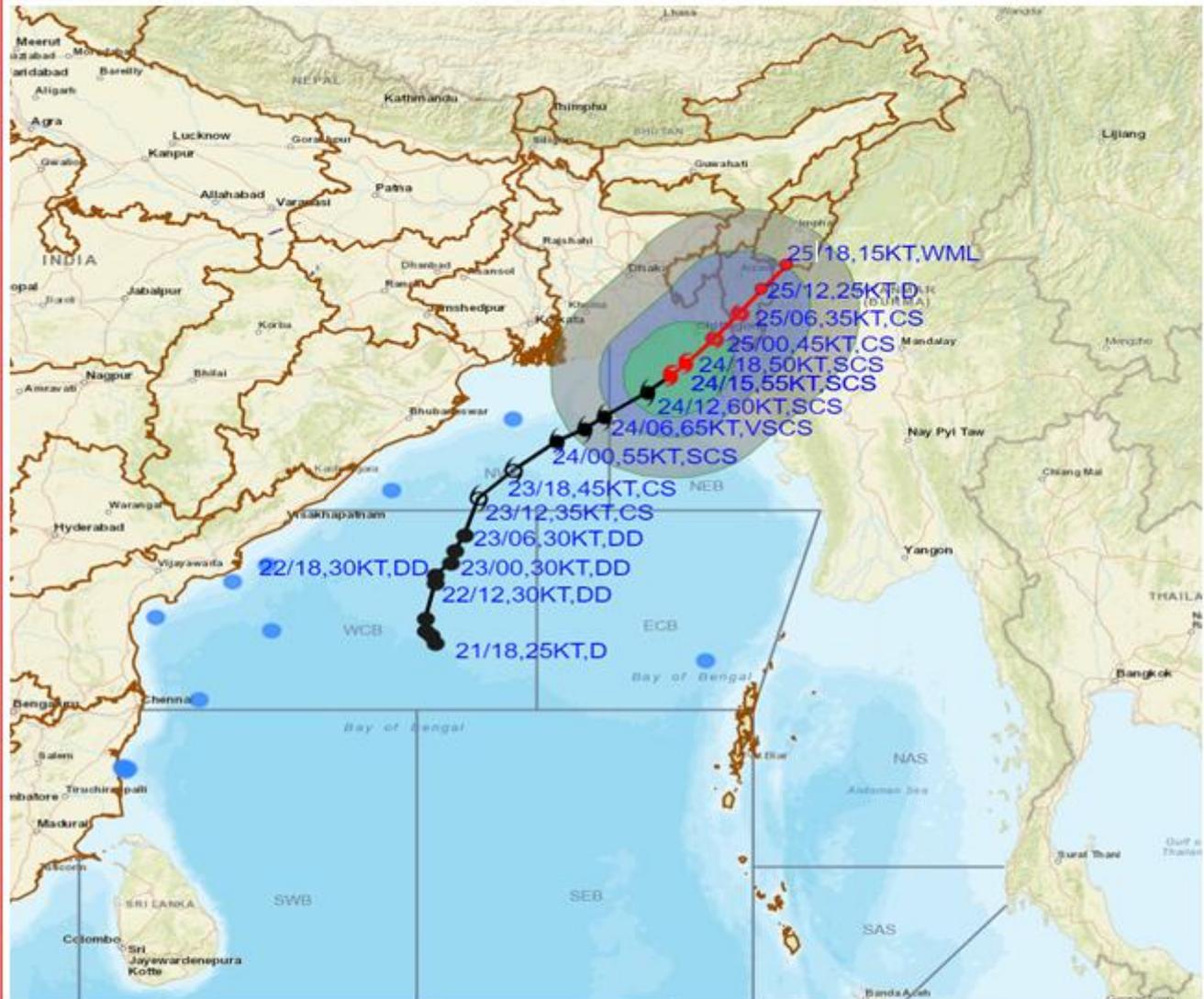
- LESS THAN 34 KT
- 34-47 KT
- $\geq$  48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

Forecast	DISTANCE(KM) AND DIRECTION FROM STATIONS			
Date and Time	PARADIP (CWR)	DIGHA	KHEPUPARA	CHITTAGONG (AMBAGAN)
25.10.23/1200	760, ENE	620, ENE	350, ENE	190, NE

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**OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM "HAMOON" OVER NORTHWEST BAY OF BENGAL BASED ON 1500 UTC (2030 IST) OF 24<sup>TH</sup> 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 (≥20 KT)

● LESS THAN 34 KT  
○ 34-47 KT  
● ≥ 48 KT  
— OBSERVED TRACK  
— FORECAST TRACK  
● CONE OF UNCERTAINTY  
AREA OF MAXIMUM SUSTAINED WIND SPEED:  
■ 28-33 KT (52-61 KMPH)  
■ 34-49 KT (62-91 KMPH)  
■ 50-63 KT (92-117 KMPH)  
■ ≥ 64 KT (≥118 KMPH)

**IMPACT OVER THE SEA**

MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

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**OBSERVED AND FORECAST TRACK OF WELL MARKED LOW PRESSURE AREA (REMNANT OF VERY SEVERE CYCLONIC STORM "TEJ") OVER YEMEN BASED ON 1500 UTC (2030 IST) OF 24<sup>TH</sup> OCTOBER 2023.**



DATE/TIME IN UTC

IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

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SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SCS: SUPER CYCLONIC STORM @ 120 KT

● LESS THAN 34 KT

○ 34-47 KT

○ ≥ 48 KT

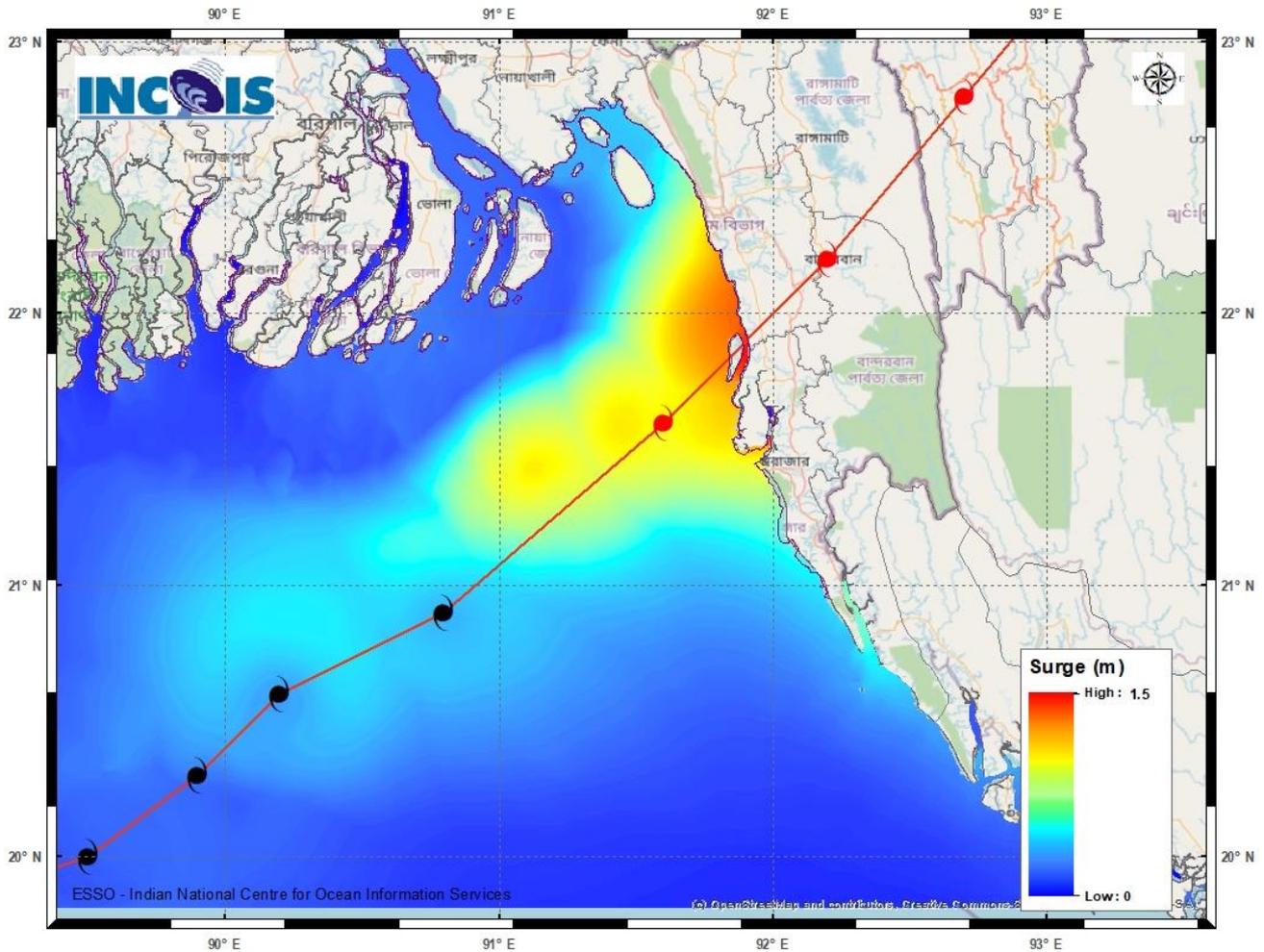
— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY

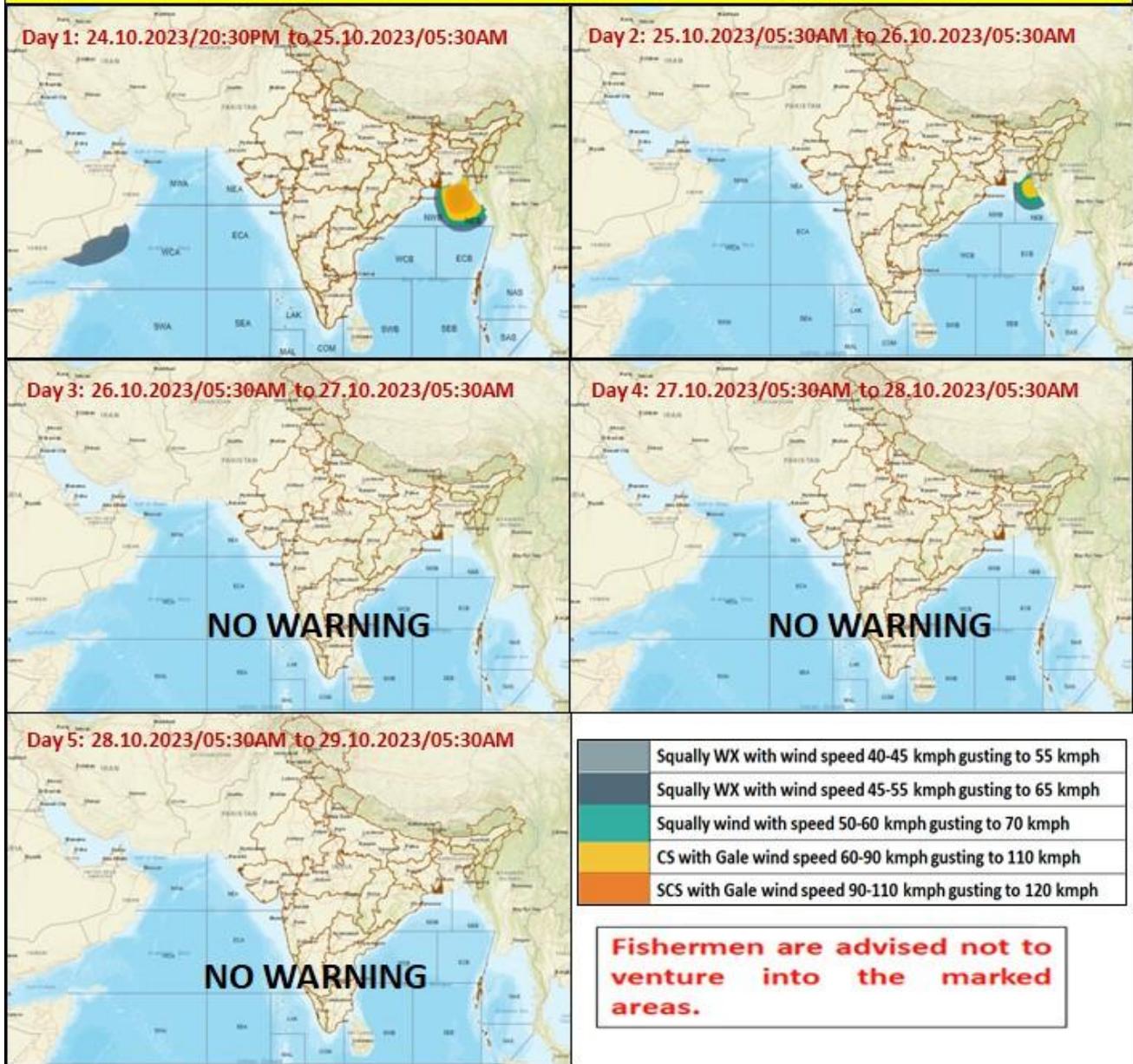
### STORM SURGE GUIDANCE FOR BANGLADESH:

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.



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## Fishermen warning graphics



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