



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

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 28.05.2024**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR NEXT 168 HOURS ISSUED AT 0700 UTC OF 28.05.2024 BASED ON 0300 UTC OF 28.05.2024.**

**BAY OF BENGAL:**

**SUB: DEPRESSION (REMNANT OF CYCLONIC STORM "REMAL") OVER EAST BANGLADESH**

THE **DEPRESSION (REMNANT OF CYCLONIC STORM "REMAL")** OVER EAST BANGLADESH MOVED EAST-NORTHEASTWARDS WITH A SPEED OF 15 KMPH DURING PAST 06 HOURS AND LAY CENTERED AT 0300 UTC OF 28<sup>TH</sup> MAY, 2024 OVER THE SAME REGION, NEAR **LATITUDE** 24.7 °N AND **LONGITUDE** 91.5 °E, ABOUT 50 KM WEST-NORTHWEST OF SRIMANGAL (41915, BANGLADESH), 70 KM SOUTH-SOUTHWEST OF CHERRAPUNJI (42515), 90 KM NORTH-NORTHEAST OF AGARTALA (42724), 100 KM SOUTH-SOUTHWEST OF SHILLONG (42516), 130 KM WEST OF SILCHAR (42619, ASSAM) AND 160 KM WEST-SOUTHWEST OF HAFLONG (42522).

THE SYSTEM IS LIKELY TO MOVE EAST-NORTHEASTWARDS, AND WEAKEN INTO A WELL MARKED LOW PRESSURE AREA OVER EASTERN ASSAM AND NEIGHBOURHOOD BY EVENING OF TODAY, THE 28<sup>TH</sup> MAY, 2024.

THE LATEST SATELLITE IMAGERY INDICATES THAT THE VORTEX LIES OVER EAST BANGLADESH & NEIGHBOURHOOD. ASSOCIATED SCATTERED TO BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER NORTHEAST BAY OF BENGAL, SOUTH EASTERN PARTS OF ASSAM, MANIPUR, MIZORAM, EAST BANGLADESH, (CLOUD TOP TEMPERATURE IS -85 TO -93 DEG CEL) AND MODERATE TO INTENSE CONVECTION OVER EAST GANGETIC WEST BENGAL, NORTH EASTERN STATES OF INDIA (CLOUD TOP TEMPERATURE IS -55 TO -65 DEG CEL).

AS PER LATEST OBSERVATIONS, ESTIMATED CENTRAL PRESSURE IS 992 HPA AND PRESSURE OF OUTERMOST CLOSED ISOBAR IS 994 HPA AT 0300 UTC OF 28<sup>TH</sup> MAY. ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 20 KNOTS GUSTING TO 30 KNOTS. KAILASAHAR REPORTED LOWEST PRESSURE OF 998.2 HPA. HAFLONG REPORTED MAXIMUM 24 HOURS PRESSURE CHANGE P24 OF -9.8 HPA (INDICATING MOVEMENT OF SYSTEM NORTHEASTWARDS MOVEMENT OF THE SYSTEM).

**ARABIAN SEA:**

SCATTERED TO BROKEN LOW TO MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER SOUTH ARABIAN SEA, LAKSHADEEP ISLAND AREA, MALDIVES AREA (MINIMUM CTT -93 DEG CELSIUS). SCATTERED TO BROKEN LOW TO MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER CENTRAL

ARABIAN SEA, COMORIN AREA AND ISOLATED WEAK CONVECTION OVER NORTH ARABIAN SEA.

**\*PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:**

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
NIL	NIL	NIL	NIL	NIL	NIL	NIL

**\*NOTE: EVERY 24HR FORECAST IS VALID UPTO 0300 UTC (0830 IST) OF NEXT DAY**

**REMARKS:**

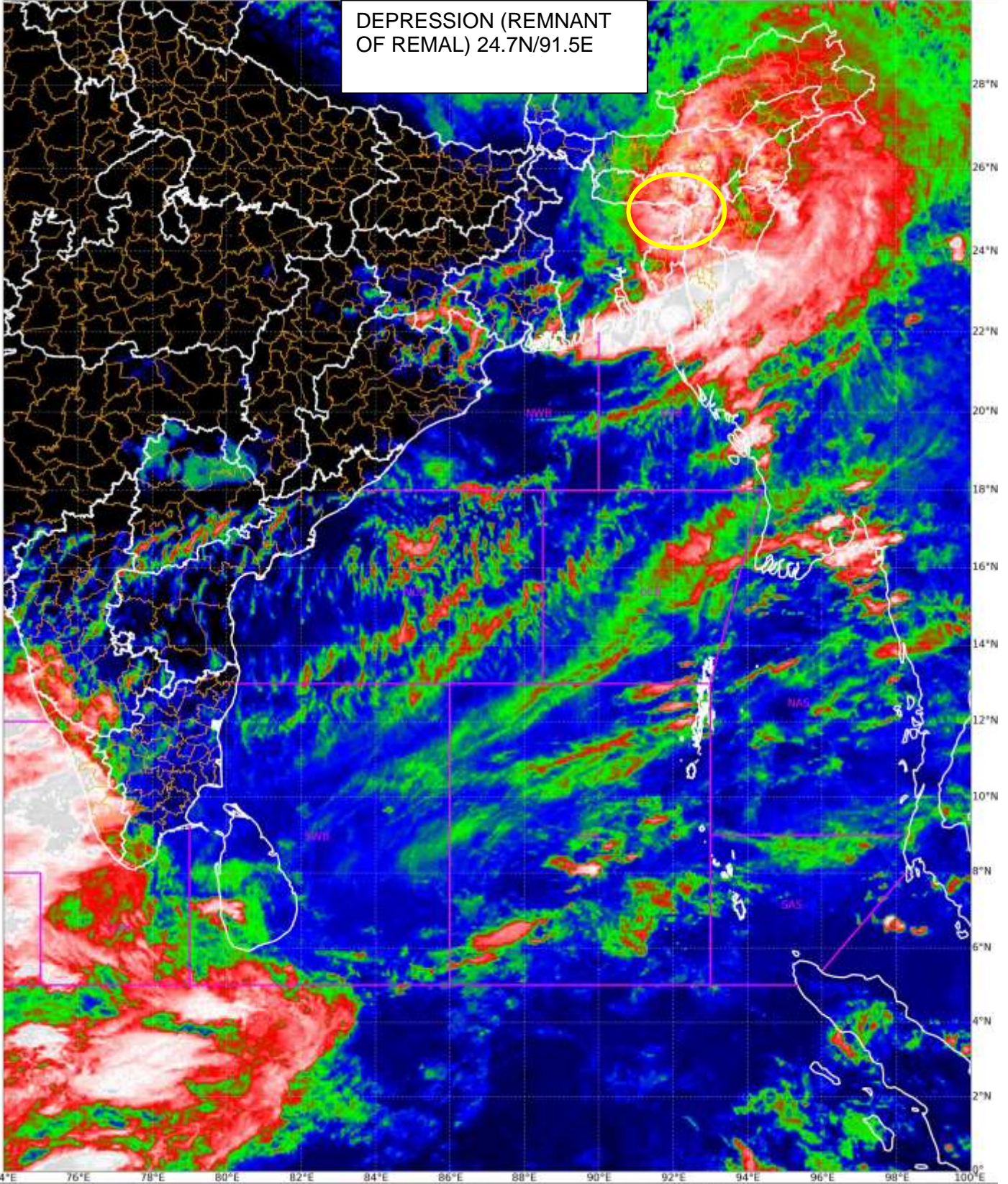
LOW LEVEL VORTICITY IS ABOUT  $100-150 \times 10^{-5} S^{-1}$  OVER EAST BANGLADESH AND ADJOINING MEGHALAYA TO THE SOUTH OF SYSTEM CENTRE, WITH VERTICAL EXTENSION UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE IS ABOUT  $30 \times 10^{-5} S^{-1}$  TO THE SOUTH OF THE SYSTEM CENTER. UPPER-LEVEL DIVERGENCE IS ABOUT  $40 \times 10^{-5} S^{-1}$  NEAR SYSTEM CENTRE. VERTICAL WIND SHEAR (VWS) IS LOW (05-10 KT) ALONG THE FORECAST TRACK. THE SYSTEM IS MOVING NORTHEASTWARDS UNDER THE INFLUENCE OF SOUTHWESTWARDS WINDS TO THE NORTH OF RIDGE AROUND 21.5N. AS IT MOVES FURTHER NORTHEASTWARDS, THE MOIST AIR ADVECTION INTO THE CORE WILL DECREASE AND THE SYSTEM WOULD WEAKEN GRADUALLY INTO A WELL MARKED LOW-PRESSURE AREA DURING NEXT 12 HOURS.

IN VIEW OF ALL THE ABOVE, THE DEPRESSION OVER BANGLADESH IS LIKELY TO MOVE EAST-NORTHEASTWARDS, AND WEAKEN INTO A WELL MARKED LOW PRESSURE AREA OVER EASTERN ASSAM AND NEIGHBOURHOOD BY EVENING OF TODAY, THE 28<sup>TH</sup> MAY, 2024.

M SHARMA  
SCIENTIST D  
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DEPRESSION (REMNANT  
OF REMAL) 24.7N/91.5E



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%  
This is a guidance Bulletin for WMO/ESCAP Panel Member countries. Visit respective National websites for Country specific Bulletins



**FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY IN ASSOCIATION WITH DEPRESSION (REMANANT OF CYCLONIC STORM 'REMAL') OVER EAST BANGLADESH BASED ON 0300 UTC (0830 IST) OF 28<sup>TH</sup> MAY 2024.**



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)

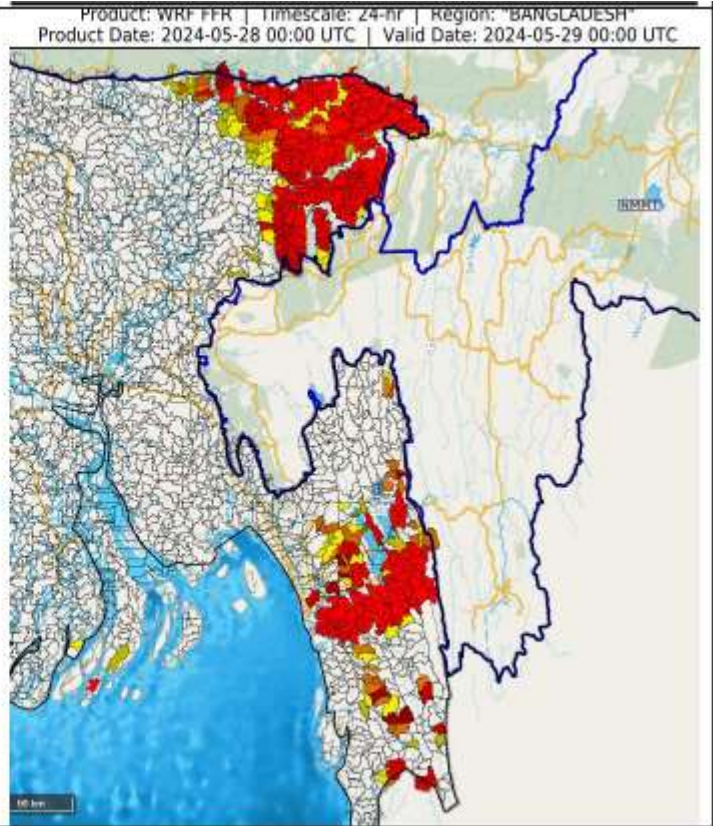
- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

## **Flash Flood Guidance for Bangladesh**

### **24 hours Flash Flood Risk Outlook till 0000 UTC of 29.05.2024:**

Low to Moderate flash flood risk likely to occur in north eastern and south eastern parts of **Bangladesh** for next 24 hours.

Surface runoff/ Inundation may occur on low lying areas due to persistent rainfall under the influence of remnant Cyclonic Storm "Remal" in next 24 hours.



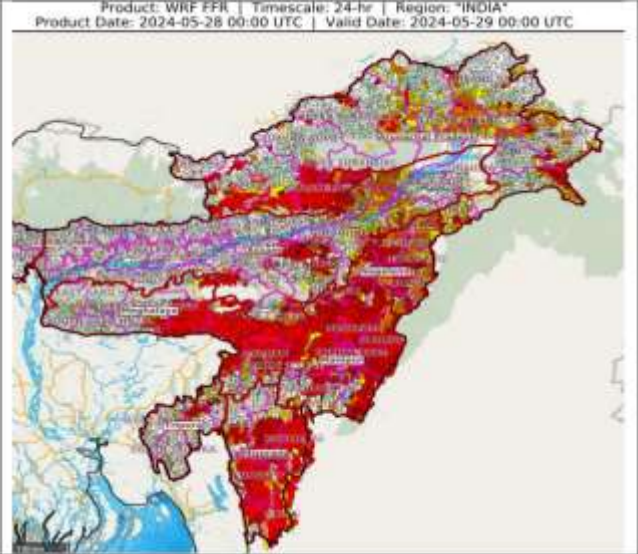
Flash Flood Threat	Flash Flood Risk
<span style="color: red;">■</span> High Threat (Take Action)	<span style="color: red;">■</span> High Risk (Take Action)
<span style="color: orange;">■</span> Moderate threat (Be Prepared)	<span style="color: orange;">■</span> Moderate Risk (Be Prepared)
<span style="color: yellow;">■</span> Low Threat (Be Updated)	<span style="color: yellow;">■</span> Low Risk (Be Updated)

## **Flash Flood Guidance for Northeastern States**

### **24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 29-05-2024 :**

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Arunachal Pradesh, Assam & Meghalaya and NMMT Met Sub-divisions during next 24 hours.

Surface runoff/ Inundation may occur on low lying areas due to persistent rainfall under the influence of remnant Cyclonic Storm "Remal" in next 24 hours.



<b>Flash Flood Threat</b>	<b>Flash Flood Risk</b>
<span style="color: red;">■</span> <b>High Threat (Take Action)</b>	<span style="color: red;">■</span> <b>High Risk (Take Action)</b>
<span style="color: orange;">■</span> <b>Moderate threat (Be Prepared)</b>	<span style="color: orange;">■</span> <b>Moderate Risk (Be Prepared)</b>
<span style="color: yellow;">■</span> <b>Low Threat (Be Updated)</b>	<span style="color: yellow;">■</span> <b>Low Risk (Be Updated)</b>