REGIONALSPECIALISED METEOROLOGICALCENTRE-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 1000 UTC OF 28.05.2024 BASED ON 0600 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 NEARLY NORTHEASTWARDS WITH A SPEED OF 16 KMPH DURING PAST 06 HOURS AND LAY CENTERED AT 0600 UTC OF TODAY, THE 28TH MAY, 2024 OVER NORTHEAST BANGLADESH AND ADJOINING MEGHALAYA, NEAR LATITUDE 25.1°N AND LONGITUDE 91.8°E, ABOUT 90 KM NORTH OF SRIMANGAL (41915, BANGLADESH), 20 KM SOUTH-SOUTHEAST OF CHERRAPUNJI (42515), 150 KM NORTH-NORTHEAST OF AGARTALA, 50 KM SOUTH OF SHILLONG (42516), 110 KM WEST-NORTHWEST OF SILCHAR (42619, ASSAM) AND 120 KM WEST OF HAFLONG (42522).

THE SYSTEM IS LIKELY TO MOVE NEARLY NORTHEASTWARDS, AND WEAKEN INTO A WELL MARKED LOW PRESSURE AREA OVER EASTERN ASSAM AND NEIGHBOURHOOD BY 1200 UTC OF TODAY, THE 28TH MAY, 2024.

THE LATEST SATELLITE IMAGERY INDICATES THAT THE VORTEX LIES OVER EAST BANGLADESH & NEIGHOURHOOD. 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 28TH 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 0F -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 $X10^{-5}S^{-1}$ OVER EAST BANGLADESH AND ADJOINING MEGHALAYA TO THE SOUTH OF SYSTEM CENTRE, WITH VERTICAL EXTENSION UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE IS ABOUT $30X10^{-5}$ S^{-1} TO THE SOUTH OF THE SYSTEM CENTER. UPPER-LEVEL DIVERGENCE IS ABOUT $20X10^{-5}S^{-1}$ 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 EAST BANGLADESH IS LIKELY TO MOVE NEARLY NORTHEASTWARDS, AND WEAKEN INTO A WELL MARKED LOW PRESSURE AREA OVER EASTERN ASSAM AND NEIGHBOURHOOD BY 1200 UTC OF TODAY, THE 28TH MAY, 2024.

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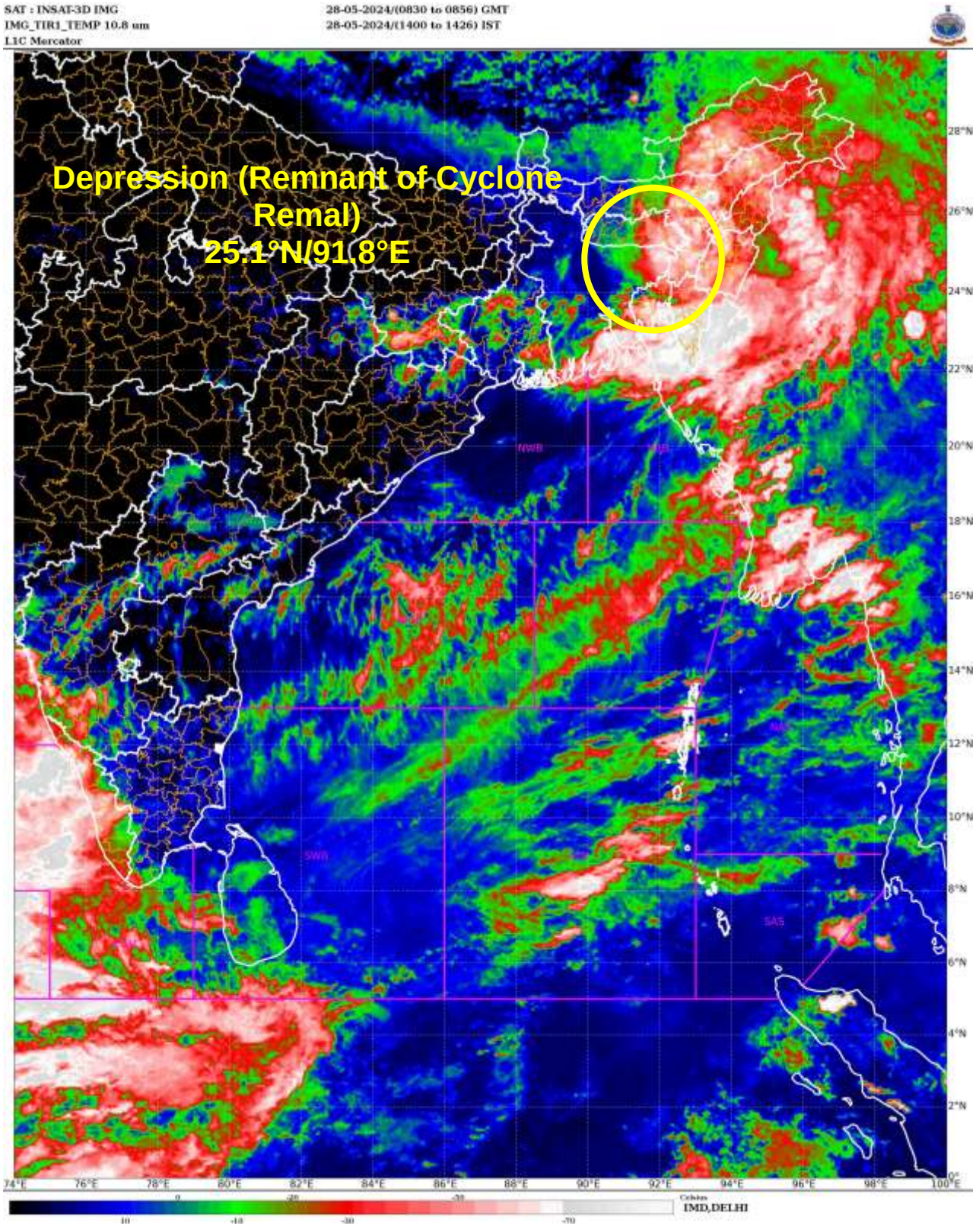
RSMC NEW DELHI



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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FORECAST TRACK IN ASSOCIATION WITH DEPRESSION (REMANANT OF SEVERE CYCLONIC STORM 'REMAL') OVER NORTHEAST BANGLADESH AND ADJOINING MEGHALAYA BASED ON 0600 UTC (1130 IST) OF 28TH 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

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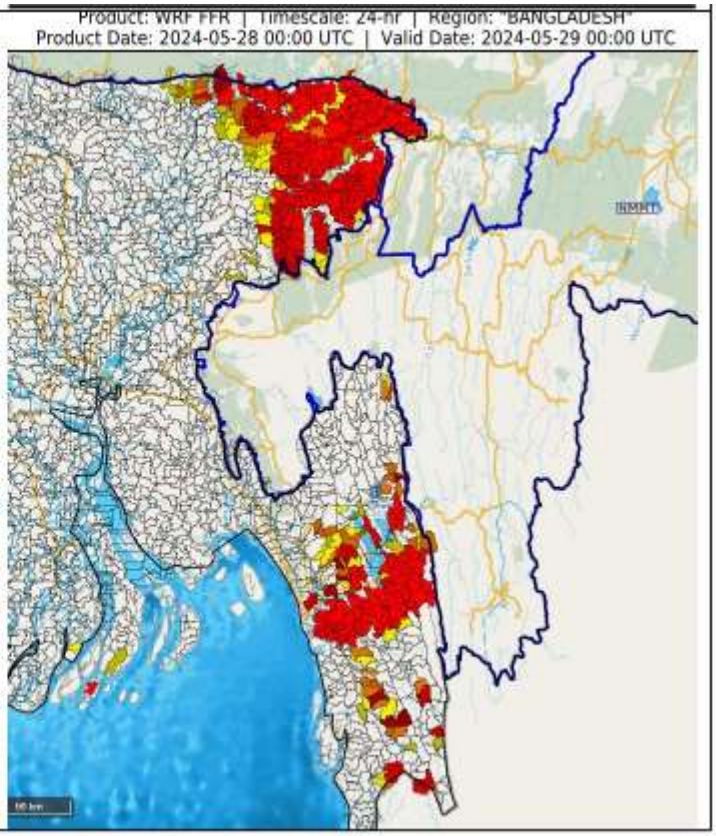
Flash Flood Guidance for Bangladesh

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
High Threat (Take Action)	High Risk (Take Action)
Moderate threat (Be Prepared)	Moderate Risk (Be Prepared)
Low Threat (Be Updated)	Low Risk (Be Updated)

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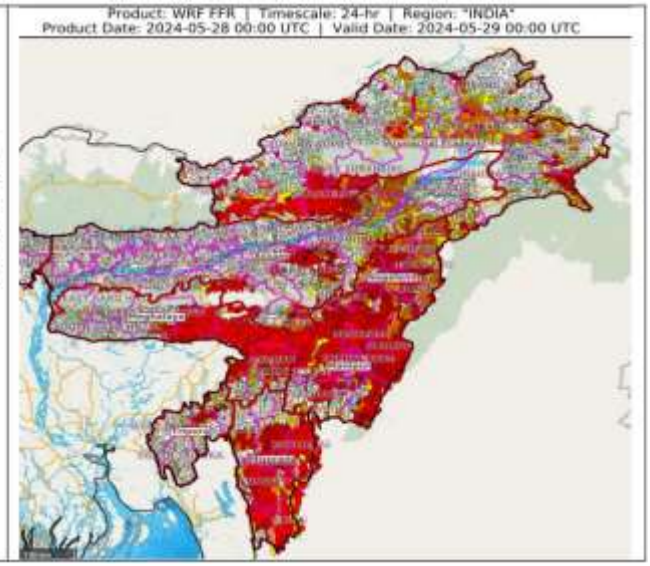
Flash Flood Guidance for Northeastern States

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.



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