



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 30.05.2025

SPECIAL TROPICAL WEATHER OUTLOOK FOR THE NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR THE NEXT 168 HOURS ISSUED AT 0900 UTC OF 30.05.2025 BASED ON 0600 UTC OF 30.05.2025.

Sub: Depression over North Bangladesh and adjoining Meghalaya

The depression over Bangladesh moved north-northeastwards with a speed of 23 kmph during past 6 hours and lay centred at 0600 UTC of today, the 30th May 2025 over **North Bangladesh and adjoining Meghalaya** near latitude 25.1° N and longitude 90.2° E, about 40 km south of Tura (42511), 50 km North of Mymensingh (41886), 100 km south-southeast of Dhubri (42404), 180 km west-southwest of Shillong (42516) and 180 km southwest of Guwahati (42410).

It is very likely to continue to move nearly north-northeastwards and weaken into a well-marked low pressure area during next 12 hours.

As per the satellite imagery based on 0600 UTC of 30th May, scattered to broken low and medium clouds with embedded intense to very intense convection lay over north and adjoining central Bay of Bengal, Bangladesh, Manipur, Mizoram and Tripura. Minimum cloud top temperature was -75°C to -90°C. Moderate to intense convection lay over Odisha, Gangetic West Bengal and Northeastern states. Minimum cloud top temperature was -50°C to -70°C.

At 0600 UTC, the associated estimated central pressure was 990 hPa and the associated maximum sustained wind speed was 25 knots gusting to 35 knots around the system centre. Winds were higher in the eastern sector due to convergence of southerly and southeasterly winds from the Bay of Bengal.

Dhubri (41897) reported MSLP as 994.4 hPa, Mymensingh (41886) reported MSLP as 991.2. Guwahati reported MSLP as 993.3.

Remarks:

The Madden Julian Oscillation (MJO) is in phase 5 with amplitude close to 1 and would continue in same phase during next 2-3 days and with amplitude close to 1. The mid-level vertical wind shear is moderate (10-20 kt) to the east of the system area. Low level relative vorticity has decreased and is about $100 \times 10^{-6} \text{ s}^{-1}$ to the southeast of system centre. Low level convergence is around $50 \times 10^{-6} \text{ s}^{-1}$ to the southeast of system centre and upper level divergence is about $30 \times 10^{-6} \text{ s}^{-1}$ to the northeast of system centre. The total precipitable water imagery indicates warm moist air incursion over the entire region extending upto coastal areas of Gangetic West Bengal, Bangladesh and northeastern states. There would be orography enhancement of rainfall over the region due to southerly & southeasterly winds interaction with Garo Khasi Jaintia Hills & eastern Himalayas. Warm and moist air continues from northeast and eastcentral Bay of Bengal towards the system centre. It would continue so for next 24 hours.

D.R.Pattanaik
Scientist G,
Head 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°Cto-40°C,(c)Intense:CTT:-41°Cto -70°Cand(d)Very Intense::Less than -70°C
PROBABILITYOFCYCLOGENESIS(FORMATIONOFDEPRESSION):NIL:0%,LOW:1-33%,MODERATE:34-66%ANDHIGH:67-100%
ThisisaguidanceBulletinforWMO/ESCAPPanelMembercountries.VisitrespectiveNationalwebsitesforCountryspecificBulletins

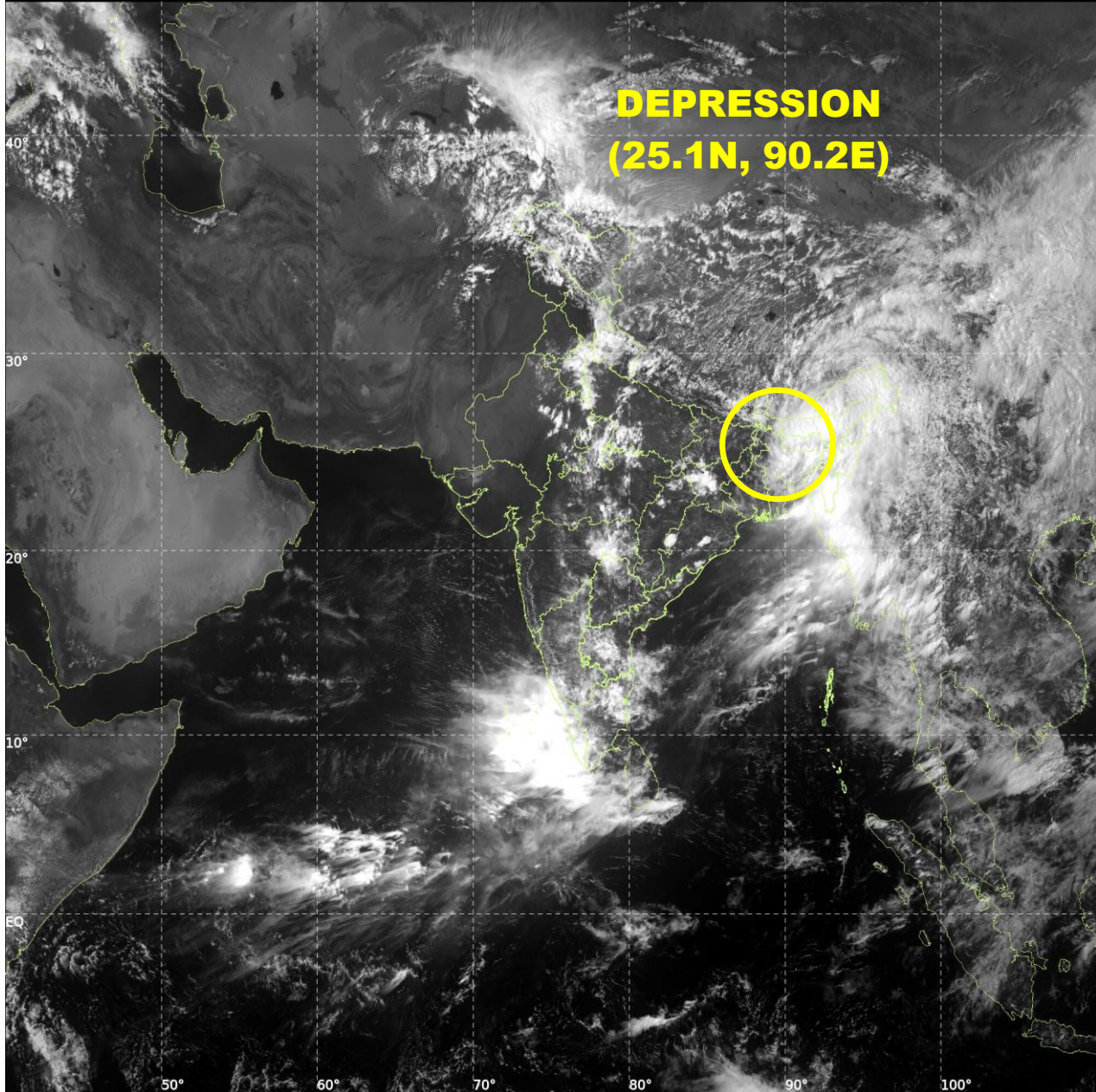


INSAT-3DS IMG, Visible Count @ 0.65 μm
GMT:30-05-2025/(0800-0827) IST:30-05-2025/(1330-1357)
LIC MERCATOR (LINEAR STRETCH: 0.5%)

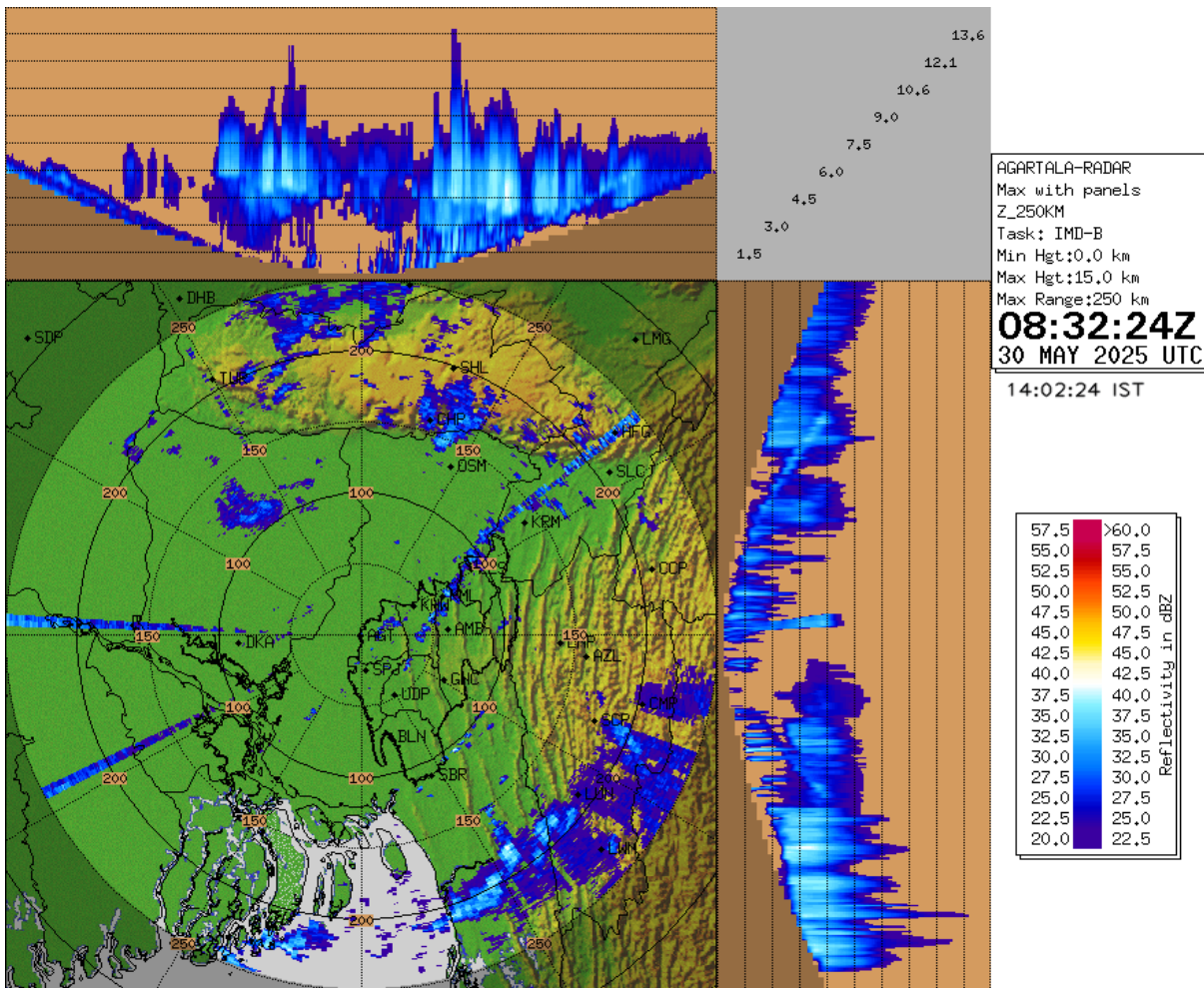
63

425

DEPRESSION
(25.1N, 90.2E)



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°Cto-40°C,(c)Intense:CTT: -41°Cto -70°Cand(d)Very Intense::Less than -70°C
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Maximum Reflectivity (dBZ) Observation by Doppler Weather Radar (DWR) at Agartala



OBSERVED AND FORECAST TRACK OF DEPRESSION OVER NORTH BANGLADESH AND ADJOINING MEGHALAYA BASED ON 0600 UTC (1130 IST) OF 30th MAY, 2025



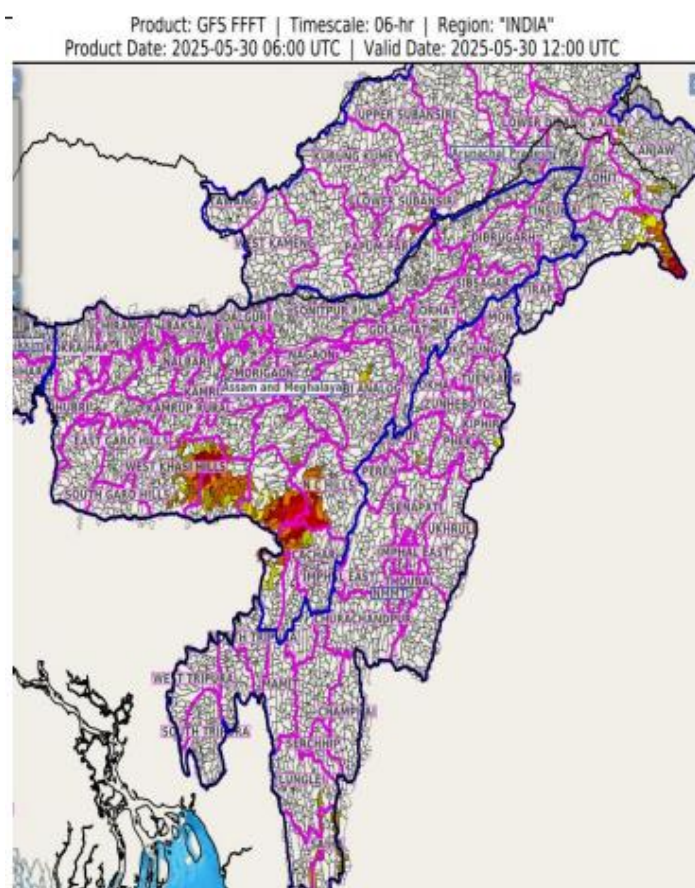
DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 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

Persistent Flash Flood Threat (PFFT) till 1730 IST of 30-05-2025

Moderate to High flash flood threat likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 6 hours.

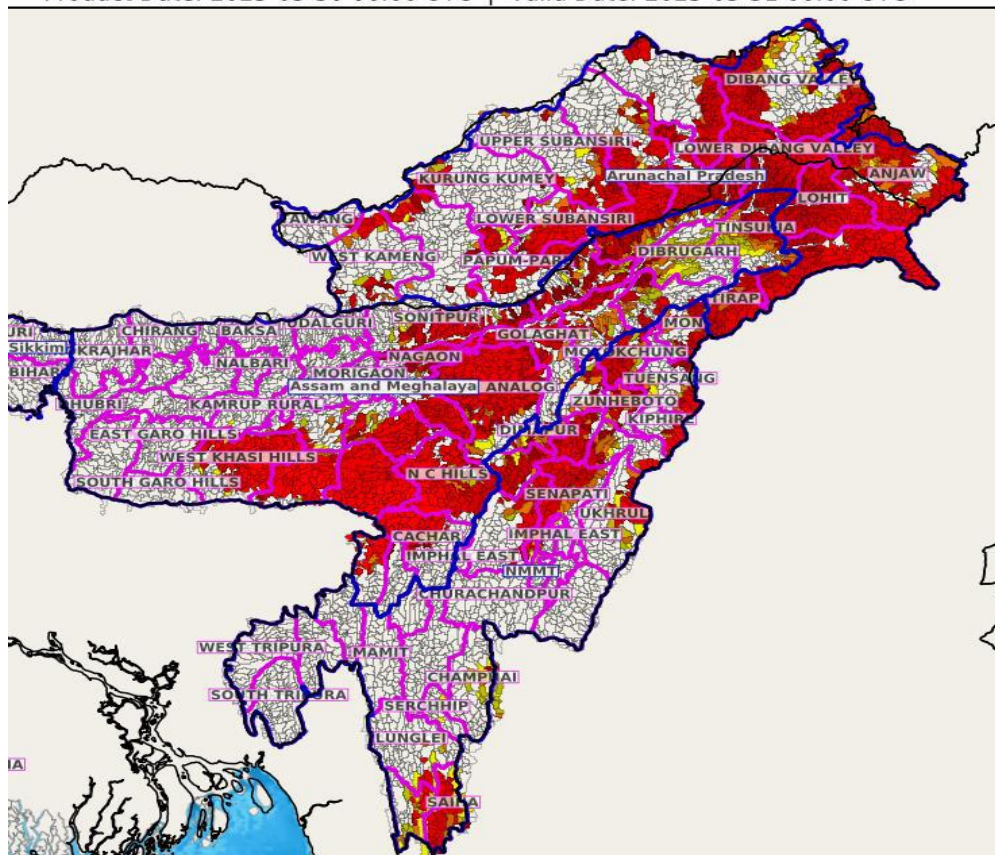
Assam & Meghalaya - Cachar, Karbi Analog, Karimganj, East Khasi Hills and West Khasi Hills districts. Arunachal Pradesh – Changlang, Anjaw and Lohit districts. NMMT Manipur – Ukhrul district Mizoram - Lunglei and Saiha districts. Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 6 hours.



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

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 31-05-2025:

Product: GFS FFR | Timescale: 24-hr | Region: "INDIA"
Product Date: 2025-05-30 06:00 UTC | Valid Date: 2025-05-31 06:00 UTC



Flash Flood Risk	
	High Risk (Take Action)
	Moderate Risk (Be Prepared)
	Low Risk (Be Updated)

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of following Met Subdivisions during next 24 hours.

Arunachal Pradesh - Changlang, Dibang Valley, East Kameng, East Siang, Lohit, Lower Dibang Valley, Lower Subansiri, Papum-Pare, Tawang, Tirap, West Kameng, West Siang, Anjaw, Upper Siang and Kurung Kumey districts.

Assam & Meghalaya - Cachar, Dhemaji, Dibrugarh, Golaghat, Jorhat, Karbi Analog, Lakhimpur, N.C Hills, Nagaon, Sibsagar, Sonitpur, Tinsukia, Karimganj, Ri Bhoi, West Khasi Hills and Jaintia Hills districts. **NMMT Manipur** - Bishnupur, Imphal West, Senapati, Tamenglong, Thoubal, Ukhrul,

Mizoram - Aizawl, Champhai, Kolasib, Lawngtlai, Saiha, Serchhip,

Nagaland - Dimapur, Kiphire, Kohima, Longleng, Mokokchung, Mon, Peren, Phek, Tuensang, Wokha, Zunheboto,

Tripura - Dhalai, Gomati, Khowai, Sipahijala and Unakoti districts.

Fishermen Warning Graphics

