





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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 29.05.2025

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 2100 UTC OF 29.05.2025 BASED ON 1800 UTC OF 29.05.2025.

Sub: Deep Depression over Bangladesh and adjoining Gangetic West Bengal

The deep depression over coastal West Bengal and adjoining Bangladesh moved northnortheastwards with a speed of 18 kmph during past 6 hours and lay centred at 1800 UTC of 29th May 2025 over Bangladesh and adjoining Gangetic West Bengal near latitude 23.0°N and longitude 89.2°E, about 50 km northeast to Basirhat (42810), 90 km southwest of Faridpur (41929) and 150 southwest of Dhaka (41923).

It is very likely to move nearly north-northeastwards and weaken into a depression during next 12 hours and into a well-marked low pressure area during subsequent 24 hours.

As per the satellite imagery based on 1800 UTC of 29th May, associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over north and central Bay of Bengal, Bangladesh and coastal Odisha. Minimum cloud top temperature is -75°C to -85°C. Moderate to intense convection lay over rest Odisha, Gangetic West Bengal, north coastal Andhra Pradesh and Northeastern states. Minimum cloud top temperature is -50°C to -70°C.

The associated estimated central pressure is 988 hPa and the associated maximum sustained wind speed is 30 kt gusting to 40 kt.

Mongla (41958) reported MSLP as 989.9 hPa, MSW of 270⁰/04kt, P24 as -3.4 hPa and Gopalganj Sadar (41938) reported MSLP as 989.5 hPa, MSW of 180⁰/02kt, P24 as -4.1 hPa.

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 (15-20 kt) over the system area. Low level relative vorticity is about 150 X10⁻⁶ s⁻¹ to the southwest of system centre. Low level convergence is around 40X10⁻⁶ s⁻¹ to the southeast of system centre and upper level divergence is increased and is around 30X10⁻⁶ s⁻¹ to the southeast of system centre. The total precipitable water imagery indicates warm moist air over the entire region extending upto coastal areas of Gangetic West Bengal and Bangladesh. Under these favourable features the deep depression over Bangladesh and adjoining Gangetic West Bengal is likely to maintain its intensity for some more time and weaken into a depression gradually.

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Maximum Reflectivity (dBZ) Observation by Doppler Weather Radar (DWR) at Kolkata







24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 30-05-2025:



Low to Moderate 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 - Baksa, Barpeta, Bongaigaon, Cachar, Chirang, Darrang, Dhemaji, Dibrugarh, Goalpara, Golaghat, Hailakandi, Jorhat, Kamrup Metro, Kamrup Rural, Karbi Analog, Kokrajhar, Lakhimpur, Morigaon, N.C Hills, Nagaon, Nalbari, Sibsagar, Sonitpur, Tinsukia, Udalguri, Karimganj, East Garo Hills, East Jaintia Hills, East Khasi Hills, North Garo Hills, Ri Bhoi, South Garo Hills, South West Garo Hills, South West Khasi Hills, West Garo Hills, West Jaintia Hills, West Khasi Hills, Dhubri and Jaintia Hills districts.

Nagaland Mizoram Manipur Tripura (NMMT) - Bishnupur, Chandel, Churachandpur, Imphal East, Imphal West, Senapati, Tamenglong, Thoubal, Ukhrul, Aizawl, Champhai, Kolasib, Lawngtlai, Lunglei, Mamit, Saiha, Serchhip, Dimapur, Kiphire, Kohima, Longleng, Mokokchung, Mon, Peren, Phek, Tuensang, Wokha, Zunheboto, Dhalai, Gomati, Khowai, North Tripura, Sipahijala, South Tripura, Unakoti and West Tripura districts.





