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 0330 UTC OF 30.05.2025 BASED ON 0000 UTC OF 30.05.2025.

Sub: Deep Depression weakened into a depression over Bangladesh

The deep depression over Bangladesh and adjoining Gangetic West Bengal moved north-northeastwards with a speed of 20 kmph during past 6 hours, weakened into a depression and lay centred at 0000 UTC of today, the 30th May 2025 over Bangladesh near latitude 24.1° N and longitude 89.4° E, about 60 km west-southwest of Tangail (41909), 110 km west-northwest of Dhaka (41923), 120 km northeast to Berhampore (42603) and 300 km west-southwest of Shillong (42516).

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

As per the satellite imagery based on 0000 UTC of 30th 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.

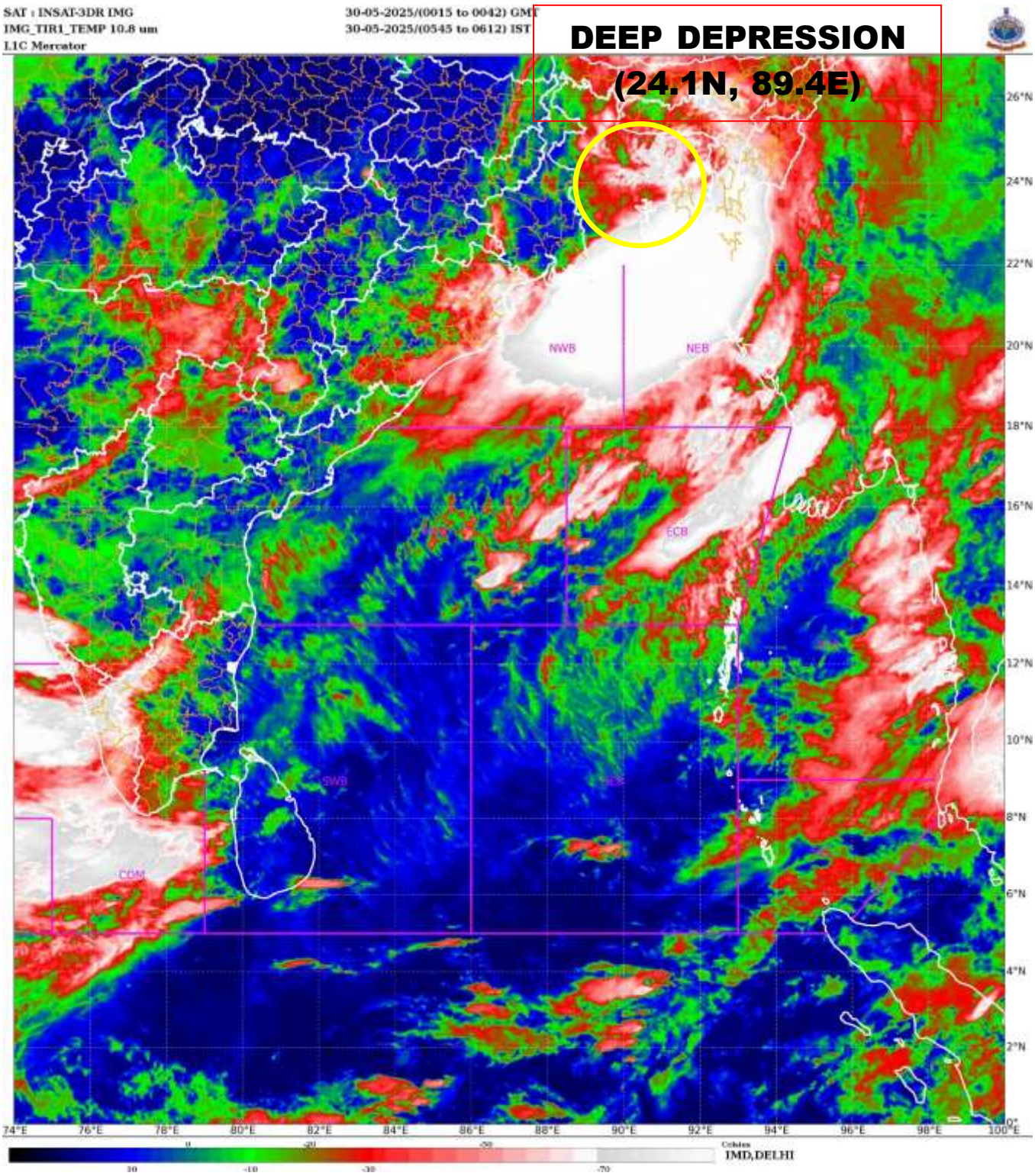
The associated estimated central pressure is 988 hPa and the associated maximum sustained wind speed is 25 knots gusting to 35 knots.

Tarash Sirajgani (41897) reported MSLP as 988.0 hPa, MSW of 090^0/01kt, P24 as -7.5 hPa , Ishwardi (41907) reported MSLP as 988.2 hPa, MSW of 310^0/04kt, P24 as -3.6 hPa, Tangail (41909) reported MSLP 988.2 hPa, MSW calm winds,P24 -6.9 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 high (25 kt) around the system centre and 5-10 knots southeast of the system centre. 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 about 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. The system already entered inland far from coast, continuous land interaction and high vertical wind shear are weakening the system gradually with time. However, due to moist environment and local geography of the region, the depression is likely to maintain its intensity for some time. Thereafter, it is likely to weaken gradually into a well marked low pressure area.

Shashi Kant
Scientist-D, 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.VisitrespectiveNationalwebsitesforCountryspecific Bulletins



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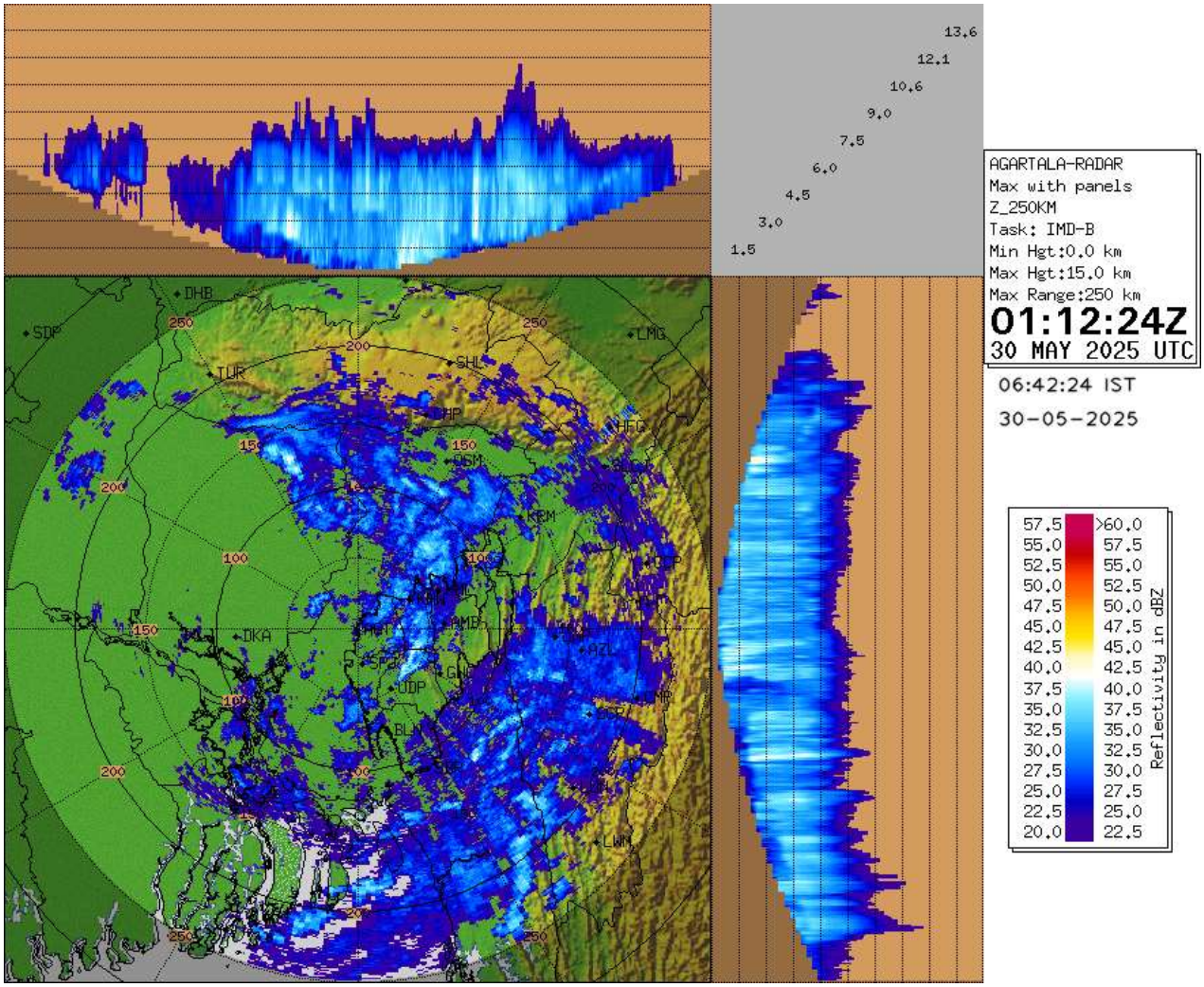

Maximum Reflectivity (dBZ) Observation by Doppler Weather Radar (DWR) at Agartala

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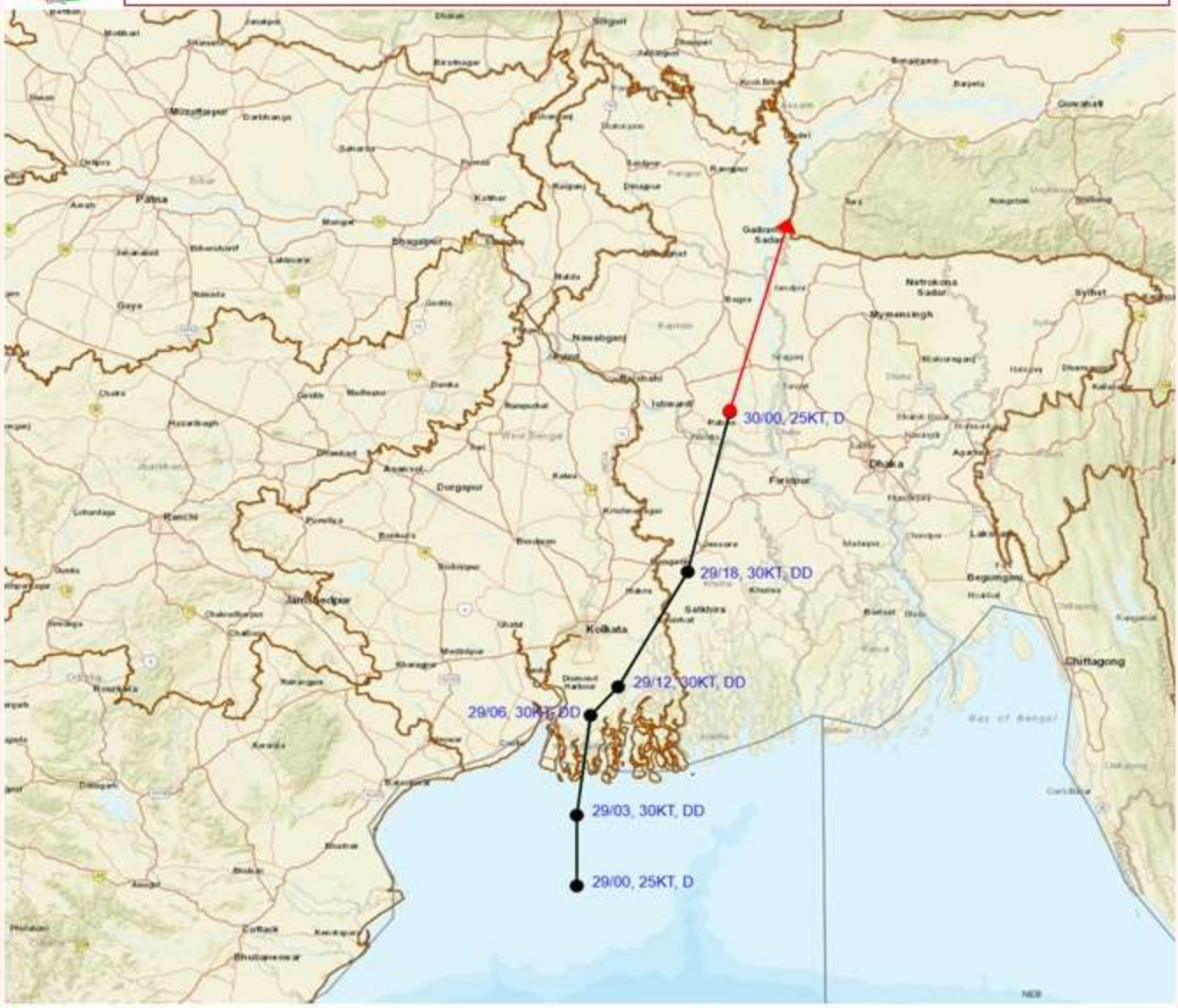
OBSERVED AND FORECAST TRACK OF DEPRESSION OVER BANGLADESH BASED ON 0000 UTC (0530 IST) OF 30th MAY, 2025



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 (≥ 120 KT)

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

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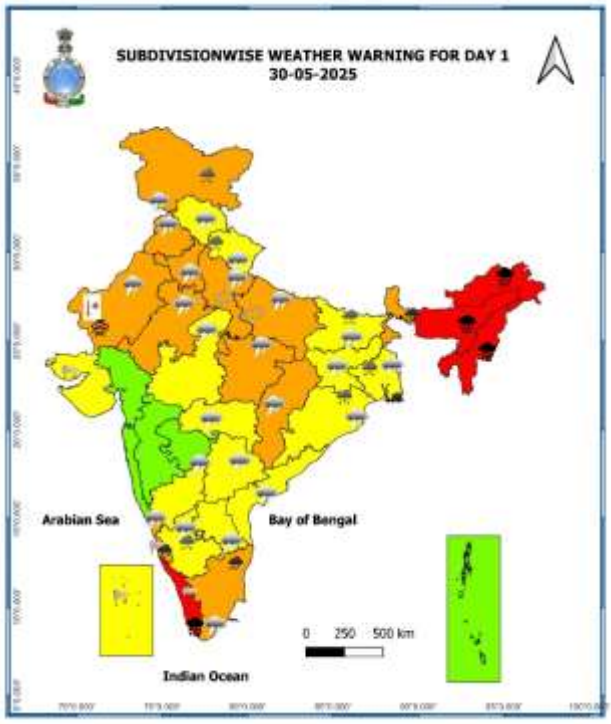

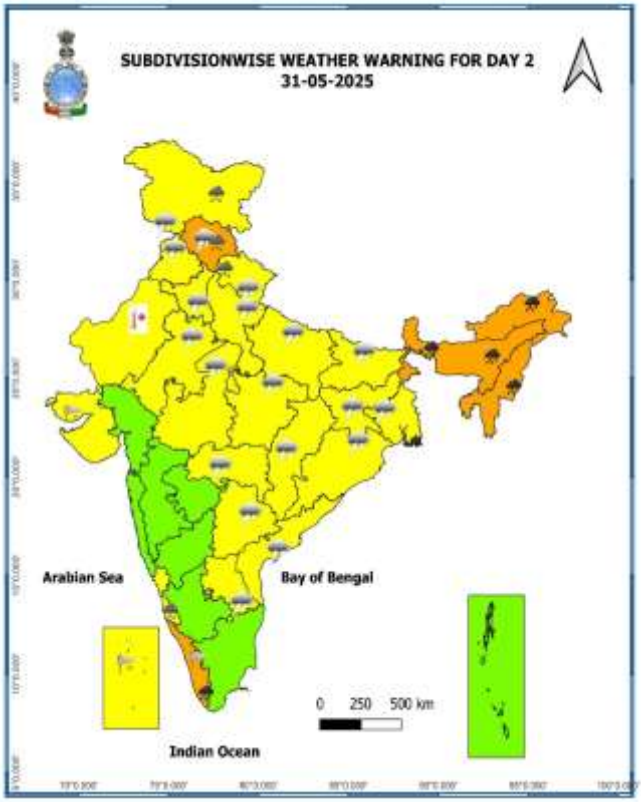

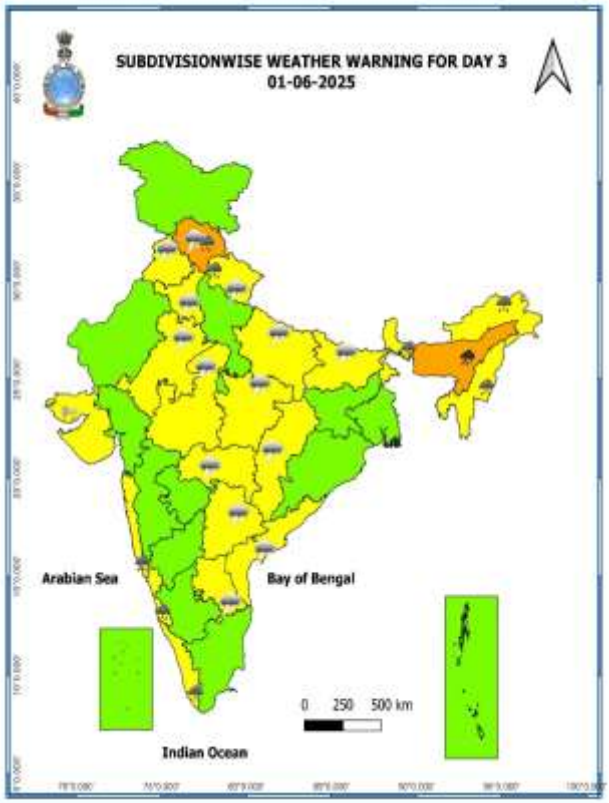

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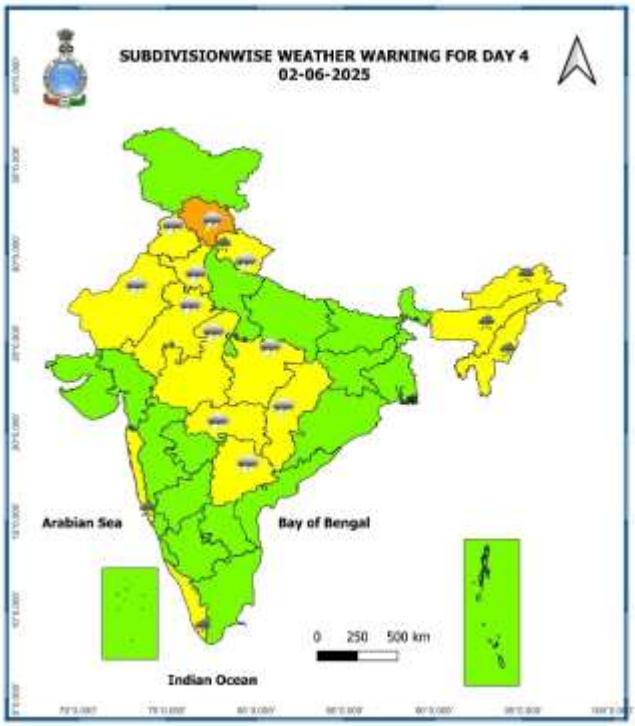

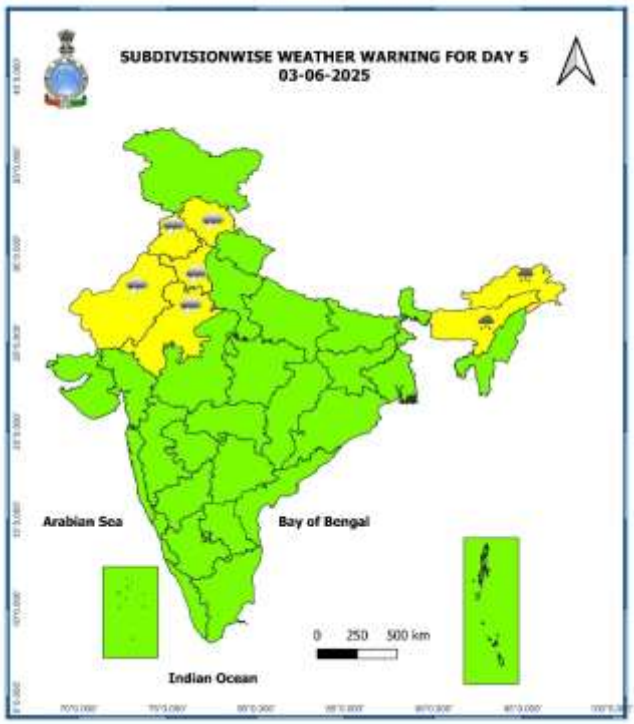

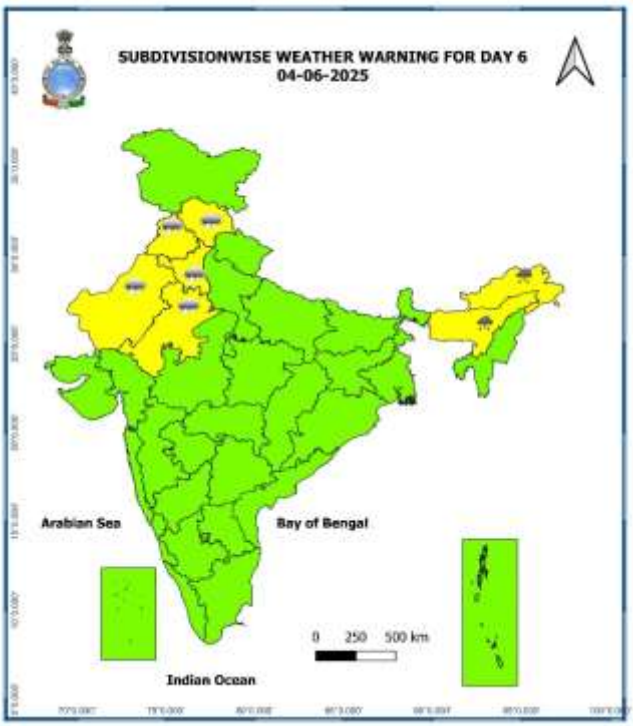

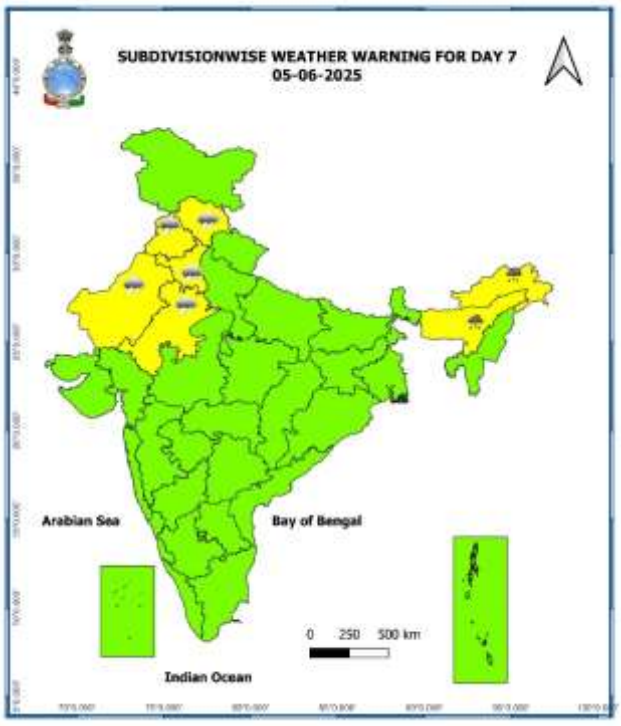

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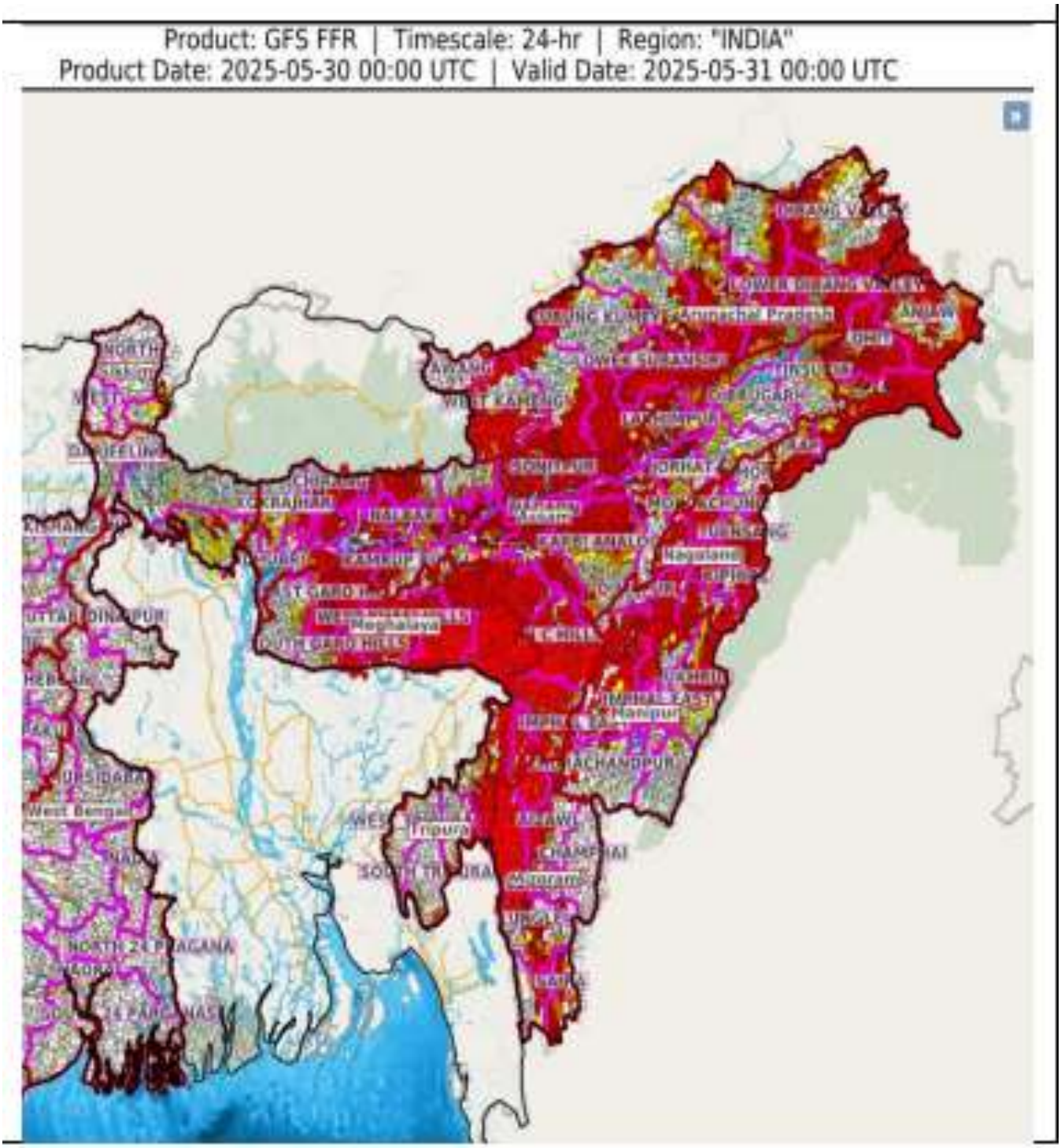
24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 31-05-2025:



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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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 - 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, 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 and Unakoti districts.Sub-Himalayan West Bengal & Sikkim - East Sikkim, Darjeeling, Jalpaiguri and Kochbihar districts

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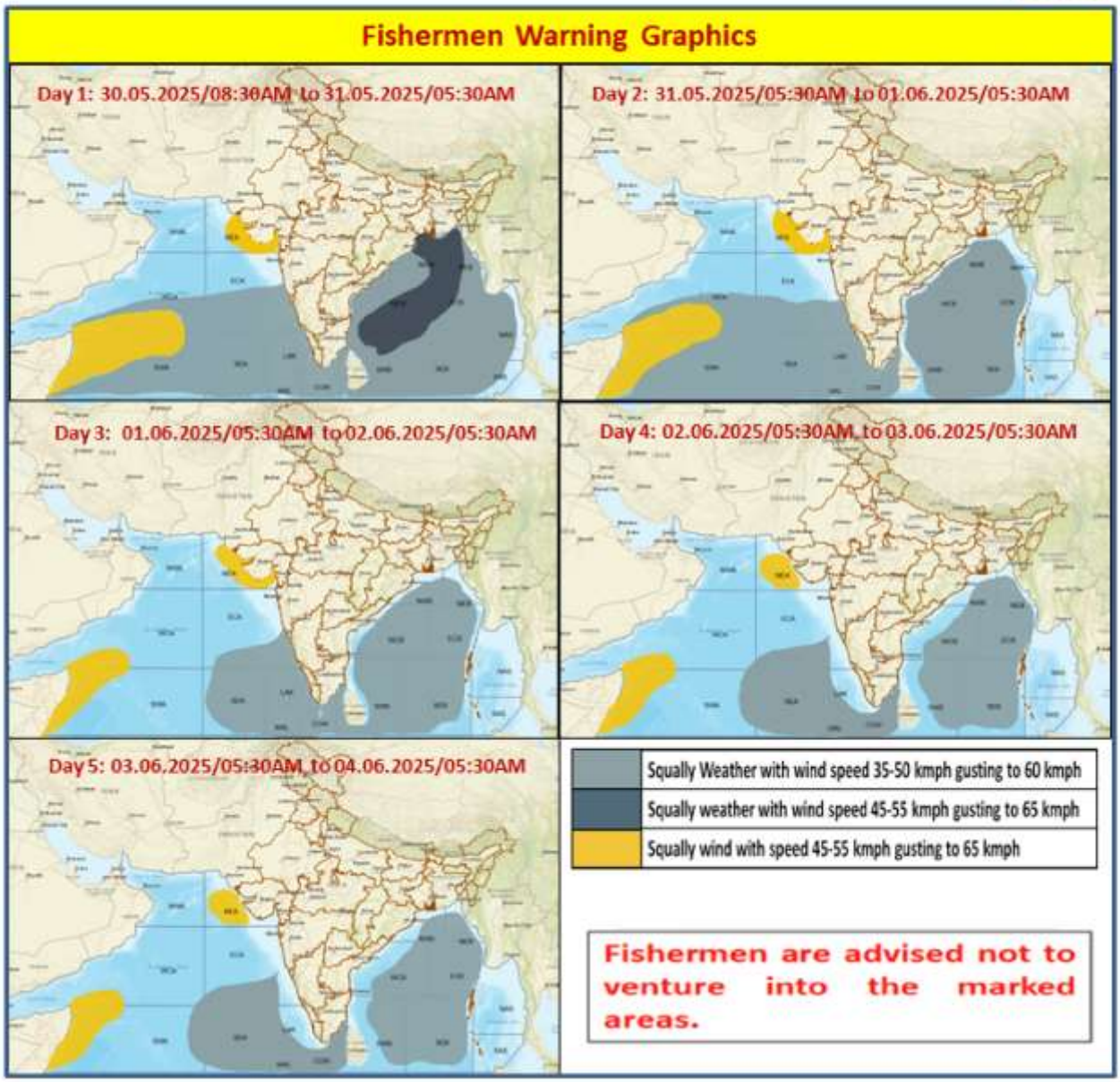
Fishermen Warning Graphics



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