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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 25.07.2025

SPECIAL TROPICAL WEATHER OUTLOOK FOR THE NORTH INDIAN OCEAN (THE BAY OF BENGAL OF BENGAL AND THE ARABIAN SEA) VALID FOR THE NEXT 168 HOURS ISSUED AT 0700 UTC OF 25.07.2025 BASED ON 0300 UTC OF 25.07.2025.

Sub: Depression over coastal West Bengal and adjoining areas of Northwest Bay of Bengal & Bangladesh

The Depression over Northwest Bay of Bengal and adjoining areas of coastal West Bengal and Bangladesh moved west-northwestwards with speed of 13 kmph, crossed West Bengal & adjoining Bangladesh coasts between 0200 and 0300 UTC and lay centred at 0300 UTC of today, the 25th July over coastal West Bengal and adjoining areas of Northwest Bay of Bengal & Bangladesh, near Lat. 21.7°N and Long. 88.8°E, about 150 km west-southwest of Khepupara (Bangladesh, 41984), about 60 km south-southeast of Canning (West Bengal, 42182), 80 km east of Sagar Island (West Bengal, 42903) and 100 km south-southeast of Kolkata(West Bengal, 42807).

It is very likely to move west–northwestwards across Gangetic West Bengal and adjoining North Odisha and Jharkhand during next 24 hours.

Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over Odisha, Gangetic West Bengal, coastal Andhra Pradesh, South Bangladesh and north & central Bay of Bengal. The minimum cloud top temperature is minus 70^0C to 90^0C.

The associated maximum sustained wind speed is 25 kt gusting to 35 kt. The estimated central pressure is 989 hPa. Sagar Island reported maximum sustained wind (MSW) speed of 250^0/03Kt and mean sea level pressure (MSLP) of 992.9 hPa, Canning reported MSLP of 991.3 hPa and Raidighi reported MSW of 335^0/02Kt and MSLP of 989.4 hPa.

Wind Warning:

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is prevailing over north Bay of Bengal, along & off Odisha, West Bengal and Bangladesh coasts and is likely to continue for next 24 hours. Squally wind speed reaching 30-40 kmph gusting to 50 kmph is likely over West Bengal, Jharkhand, and North Odisha during next 24 hours.

Sea Condition:
Sea condition is very likely to be rough to very rough over north Bay of Bengal and along & off Odisha, West Bengal and Bangladesh coasts during next 24 hours.

Fishermen Warning:

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

Fishermen are advised not to venture into north Bay of Bengal, along & off Odisha, West Bengal and Bangladesh coasts for next 24 hours.

REMARKS:

Madden Julian Oscillation (MJO) is currently in phase 7 with an amplitude greater than 1. Most of the model forecasts have a consensus and suggest that the MJO is likely to propagate eastwards across phase 7 with decreasing amplitude during next 3 days. Thus, MJO is not likely to support cyclogenesis over BoB.

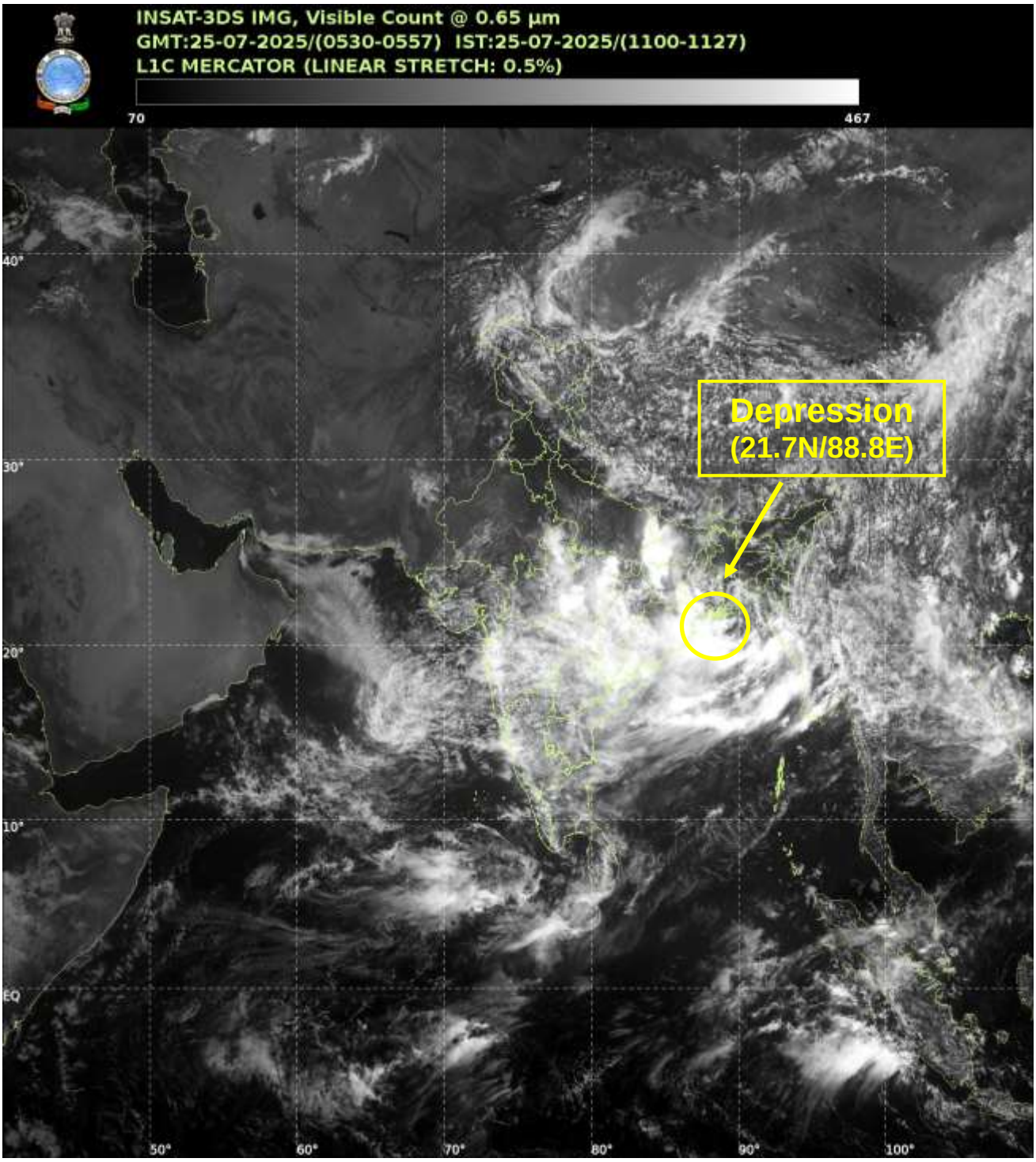
The guidance from the NCICS CFS model indicates the prevalence of strong westerly wind anomaly (5-7 mps) over the south Bay of Bengal (BoB). The easterly wind anomaly (3-5 mps) is likely over the northern parts of BoB and east India. Model is also indicating prevalence of Equatorial Rossby waves (ERW) over central BoB and Kelvin wave over north BoB. Equatorial waves will support convective activity over the BoB and eastern parts of India.

The environmental conditions are favourable with positive low level vorticity around $100x10^{-5}$ s^{-1} over northeast BoB with vertical extension upto 200 hPa level, positive low level convergence around 30 $x10^{-5}$ s^{-1} to the southeast of system centre over Myanmar & adjoining eastcentral BoB (increased in past 3 hours), positive upper level divergence (around $10x10^{-5}$ s^{-1}) over north and central BoB and moderate vertical wind shear (15-20 kt) over the system area and along the predicted path.

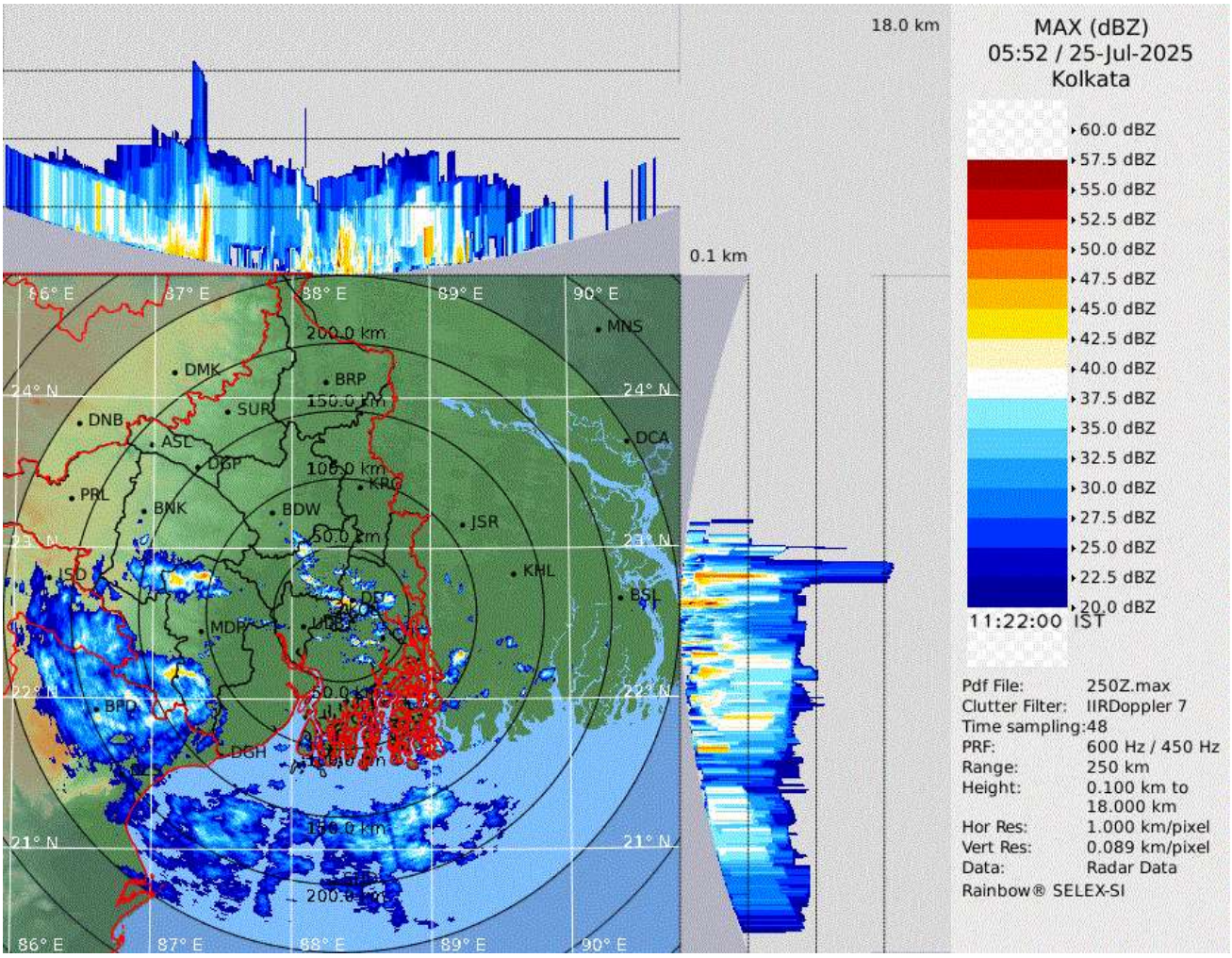
Most of the models are indicating west-northwestwards movement of the system across Gangetic West Bengal, and adjoining North Odisha and Jharkhand during next 24 hours.

Under these conditions, the depression over Northwest Bay of Bengal and adjoining areas of coastal West Bengal and Bangladesh moved west-northwestwards crossed West Bengal & adjoining Bangladesh coasts between 0200 and 0300 UTC of today, the 25th July. It is very likely to move west–northwestwards across Gangetic West Bengal and adjoining North Odisha and Jharkhand during next 24 hours.

Monica Sharma
Scientist-E
RSMC New Delhi



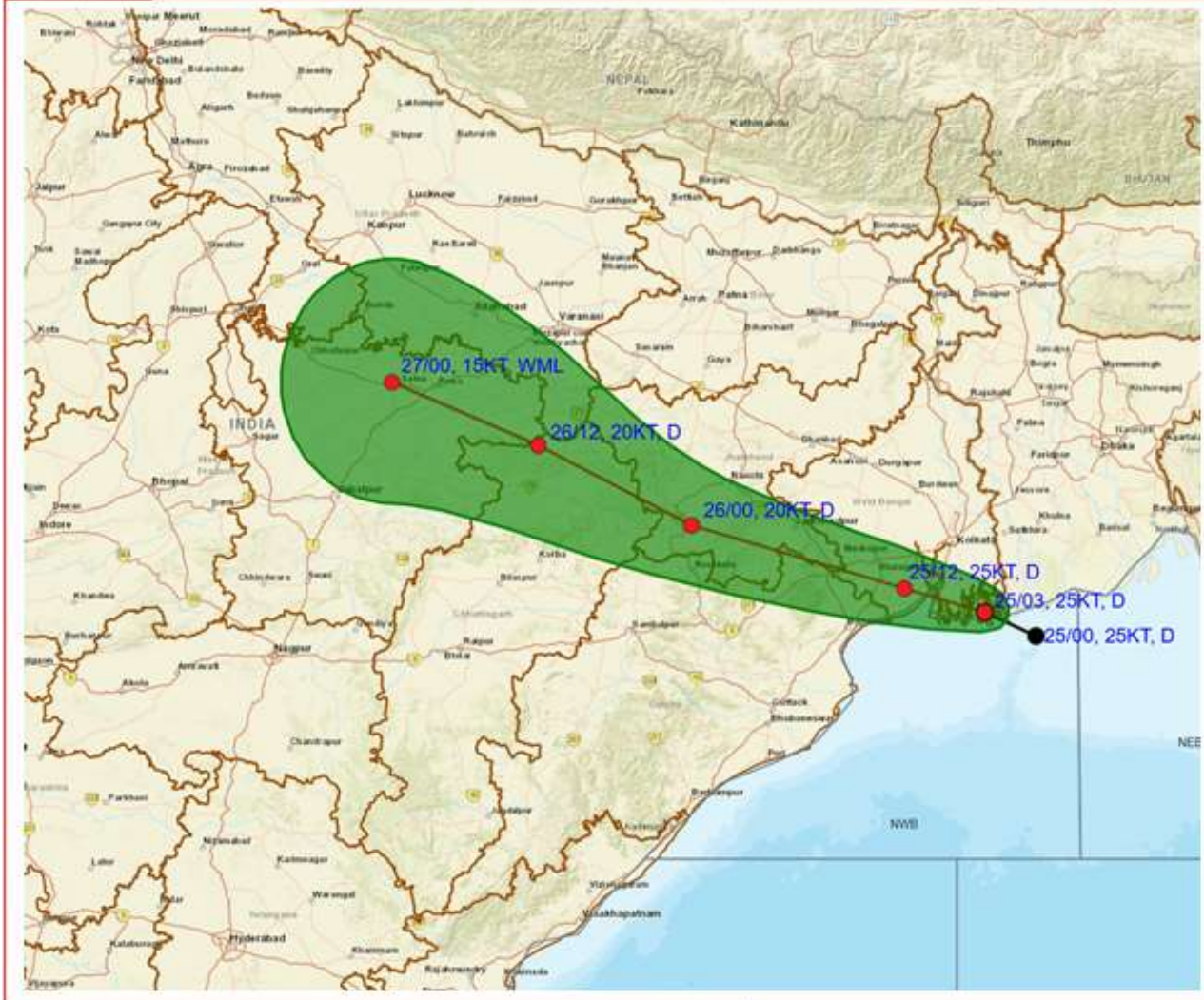
Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature(CTT)>-25°C,(b)Moderate:CTT:-25°Cto-40°C,(c)Intense:CTT: -41°Cto -70°Cand(d)Very Intense::Less than -70°C
PROBABILITYOFCYCLOGENESIS(FORMATIONOFDEPRESSION):NIL:0%,LOW:1-33%,,MODERATE:34-66%ANDHIGH:67-100%
ThisisaguidanceBulletinforWMO/ESCAPPanelMembercountries.VisitrespectiveNationalwebsitesforCountryspecificBulletins



Maximum reflectivity imagery from Kolkata Radar at 05:52 UTC of 25th July

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

OBSERVED AND FORECAST TRACK OF DEPRESSION OVER NORTHWEST BAY OF BENGAL AND ADJOINING AREAS OF COASTAL WEST BENGAL AND BANGLADESH AT 0830 HRS. IST (0300 UTC) OF 25th JULY 2025



DATE/TIME IN UTC
IST=UTC + 0530

1KT=1.85 KMPH

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

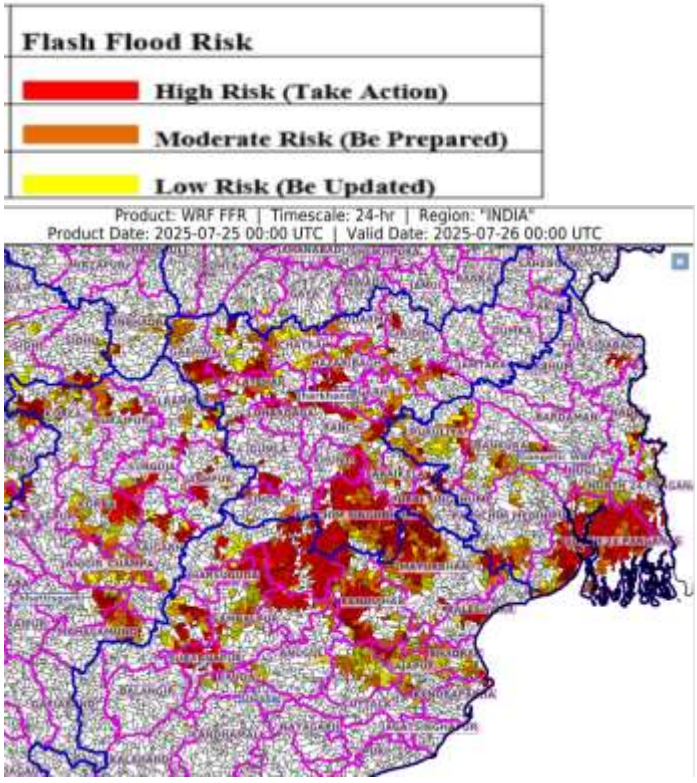
Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature(CTT)>-25°C,(b)Moderate:CTT:-25°Cto-40°C,(c)Intense:CTT: -41°Cto -70°Cand(d)Very Intense::Less than -70°C
PROBABILITYOFCYCLOGENESIS(FORMATIONOFDEPRESSION):NIL:0%,LOW:1-33%,,MODERATE:34-66%ANDHIGH:67-100%
ThisisaguidanceBulletinforWMO/ESCAPPanelMembercountries.VisitrespectiveNationalwebsitesforCountryspecificBulletins

Flash Flood Guidance

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 26-07-2025 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

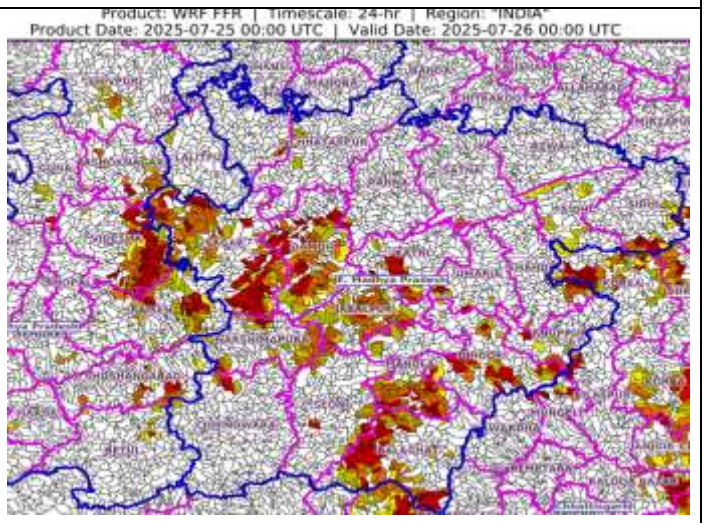
Chhattisgarh – Balarampur, Baloda Bazar, Bilaspur, Janjgir_Champa, Jashpur, Korba, Korea, Mahasamund, Mungeli, Raigarh, Surajpur and Surguja districts.
Jharkhand – Garhwa, Palamu, Latehar, Lohardaga, Gumla, Simdega, Khunti, Ranchi, Ramgarh, Bokaro, Pashchim Singhbhum, Purbi Singhbhum, Saraikela, Chatra, Giridih, Dhanbad and Hazaribagh districts.
Odisha – Anugul, Baleshwar, Baragarh, Bauda, Bhadrak, Cuttack, Kendraparha, Deogarh, Dhenkenal, Jajapur, Jharsuguda, Kendujhar, Mayurbhanj, Sambalpur and Subarnapur districts.
Gangetic West Bengal - Eastmednipur, Haora, North 24 Pragana, Pashchim Medinipur, Puruliya, Bankura, Mursidabad, Nadia and South 24 Parganas districts.



24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 26-07-2025:

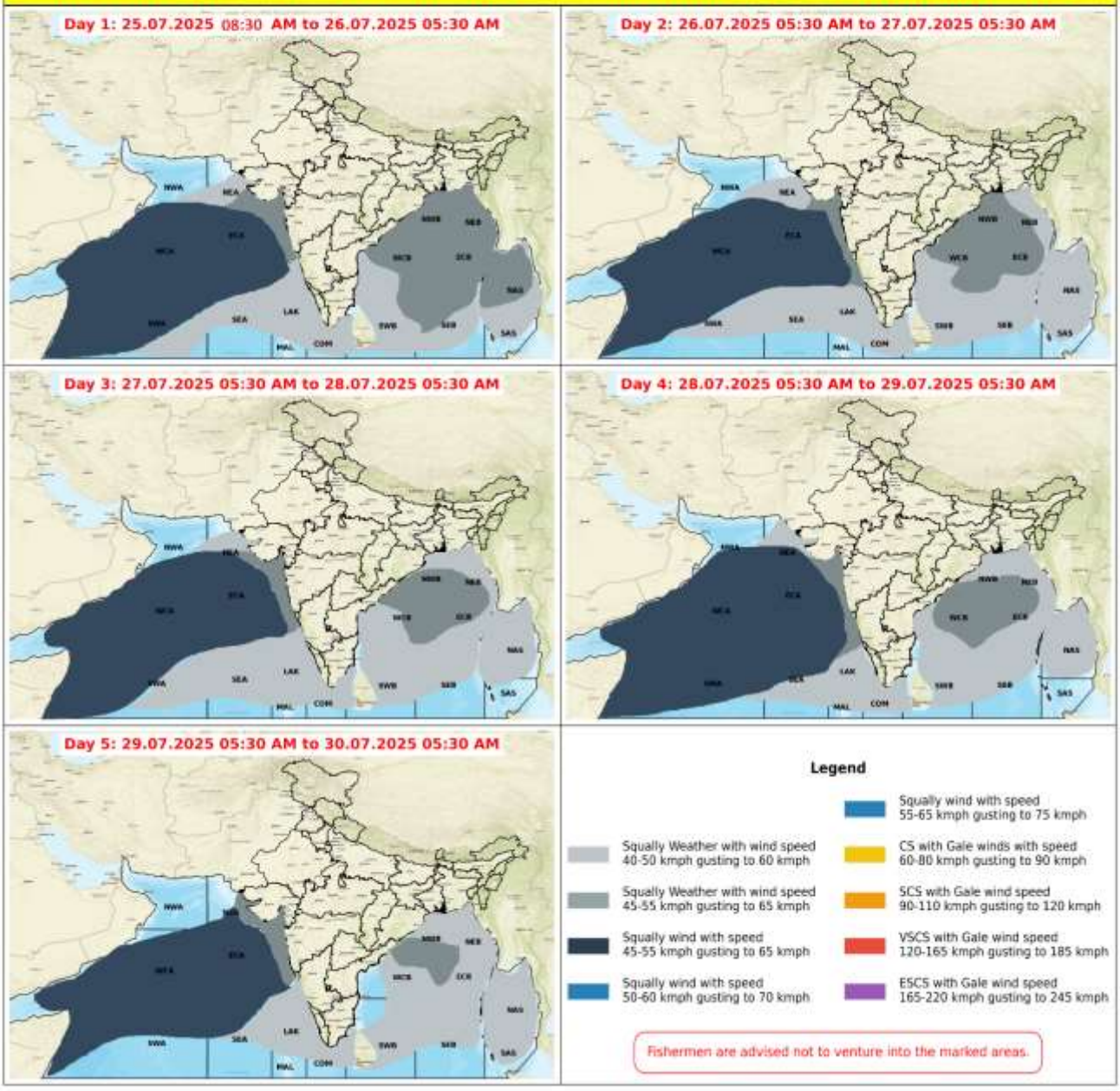
Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

East Madhya Pradesh – Anuppur, Balaghat, Chhatarpur, Chhindwara, Damoh, Dindori, Jabalpur, Katni, Mandla, Narshimapura, Panna, Rewa, Sagar, Tikamgarh, Satna, Seoni, Shahdol, Sidhi and Umaria districts.
Adjoining West Madhya Pradesh - Ashoknagar, Guna, Raisen, Shivpuri, Narmadapuram, Betul and Videsha 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 24 hours.



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

Fishermen Warning Graphics



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