



India Meteorological Department

(Ministry of Earth Sciences)

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Sub: Deep Depression over Northeast Bay of Bengal off Bangladesh coast

The Deep Depression over Northeast Bay of Bengal off Bangladesh coast moved north-northwestwards with a speed of 25 kmph during past 6 hours and lay centred at 1130 hours IST of today, the 1st August, 2023 over the same region near latitude 21.6 °N and longitude 90.7 °E, about 60 km southeast of Khepupara (Bangladesh) and 330 km east of Digha (West Bengal).

It is likely to move northwestwards and cross Bangladesh coast close to east of Khepupara by evening of today, the 1st August. Thereafter, it is very likely to move west-northwestwards across Gangetic West Bengal during subsequent 24 hours.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
01.08.23/1130	21.6/90.7	55-65 gusting to 75	Deep Depression
01.08.23/1730	22.0/90.1	55-65 gusting to 75	Deep Depression
01.08.23/2330	22.5/89.2	55-65 gusting to 75	Deep Depression
02.08.23/0530	22.9/88.2	50-60 gusting to 70	Deep Depression
02.08.23/1130	23.1/87.2	45-55 gusting to 65	Depression
02.08.23/2330	23.5/85.2	40-50 gusting to 60	Depression

Warnings:

(i) Rainfall warning

Odisha: Light to moderate rainfall at most places with isolated heavy to very heavy rainfall over Odisha and isolated extremely heavy rainfall over north Odisha on 1st, isolated heavy to very heavy rainfall on 2nd and isolated heavy rainfall on 3rd August.

Gangetic West Bengal: Light to moderate rainfall at most places with isolated heavy to very heavy rainfall over Gangetic West Bengal and isolated extremely heavy rainfall over coastal districts on 1st and isolated heavy to very heavy rainfall on 2nd August.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Jharkhand: Light to moderate rainfall at most places with isolated heavy to very heavy rainfall on 1st and 2nd August.

Chattisgarh: Light to moderate rainfall at most places with isolated heavy to very heavy rainfall over north Chhattisgarh during 1st and 2nd August.

Bihar: Light to moderate rainfall at most places with with isolated heavy to very heavy rainfall during 1st and 02nd August.

(ii) Wind warning

Squally wind speed reaching 55-65 kmph gusting to 75 kmph is prevailing over North & adjoining Central Bay of Bengal and along & off Bangladesh-West Bengal coasts and 45-55 kmph gusting to 65 kmph is prevailing along & off North Odisha coast. It is likely to continue over these regions till morning of tomorrow, the 2nd August and decrease thereafter.

(iii) Sea Condition: Rough to very rough sea condition is prevailing over North & adjoining Central Bay of Bengal and along & off Bangladesh-West Bengal-North Odisha coasts and it is likely to continue till forenoon of 2nd August.

(iv) Fishermen Warning

Fishermen are advised not to venture into North & adjoining Central Bay of Bengal and along & off Bangladesh-West Bengal-North Odisha coasts till forenoon of 2nd August.

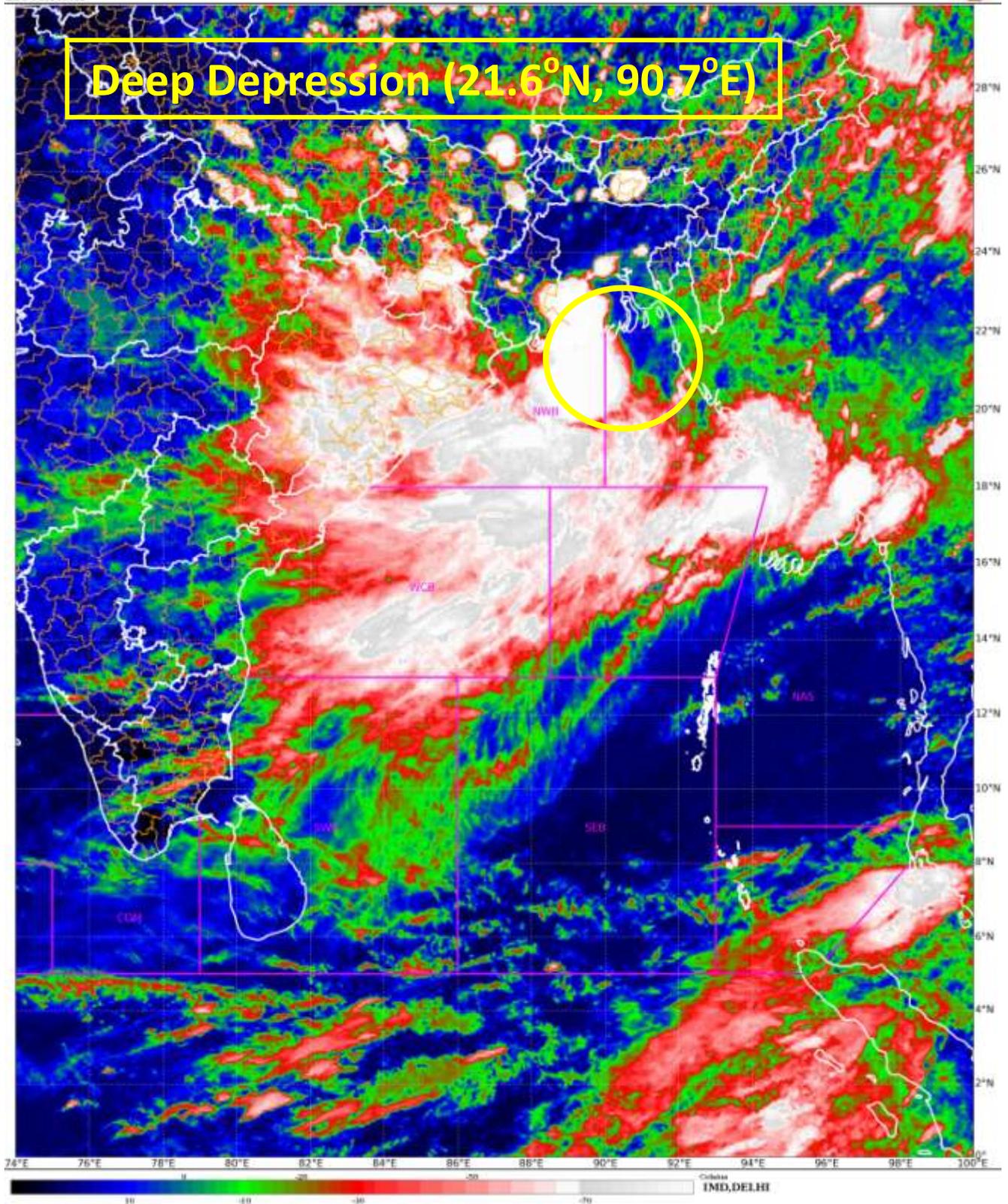
(v) Damage Expected over coastal districts of West Bengal

- Minor damage to loose / unsecured structures.
- Some breaches in Kutcha road due to flooding.
- Minor damage to Banana trees and near coastal agriculture.
- Damage to standing agriculture & horticulture crops.
- Minor damage to Kutcha embankments.

The next bulletin will be issued at 2030hrs IST of today, 1st August, 2023.

(Ananda Kumar Das)
Scientist-F, RSMC, New Delhi

Copy to: CRS, Pune/ACWC Kolkata/Chennai/CWC Bhubaneswar/CWC Visakhapatnam/MO Port Blair

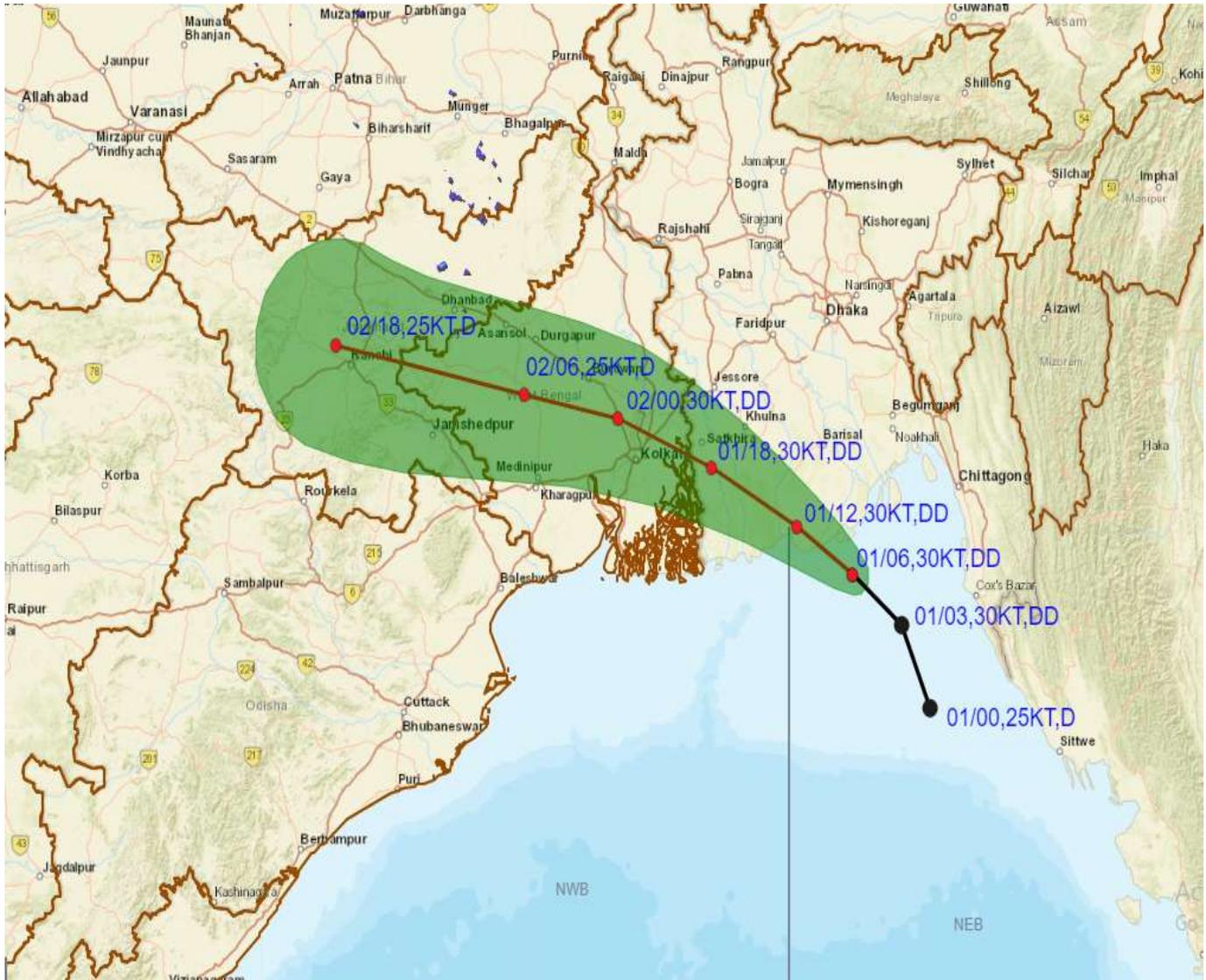


Deep Depression (21.6°N, 90.7°E)

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION OVER NORTHEAST BAY OF BENGAL BASED ON 0600 UTC (1130 IST) OF 01ST AUGUST 2023.



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

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER NORTHEAST BAY OF BENGAL BASED ON 0600 UTC (1130 IST) OF 01ST AUGUST 2023.



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)

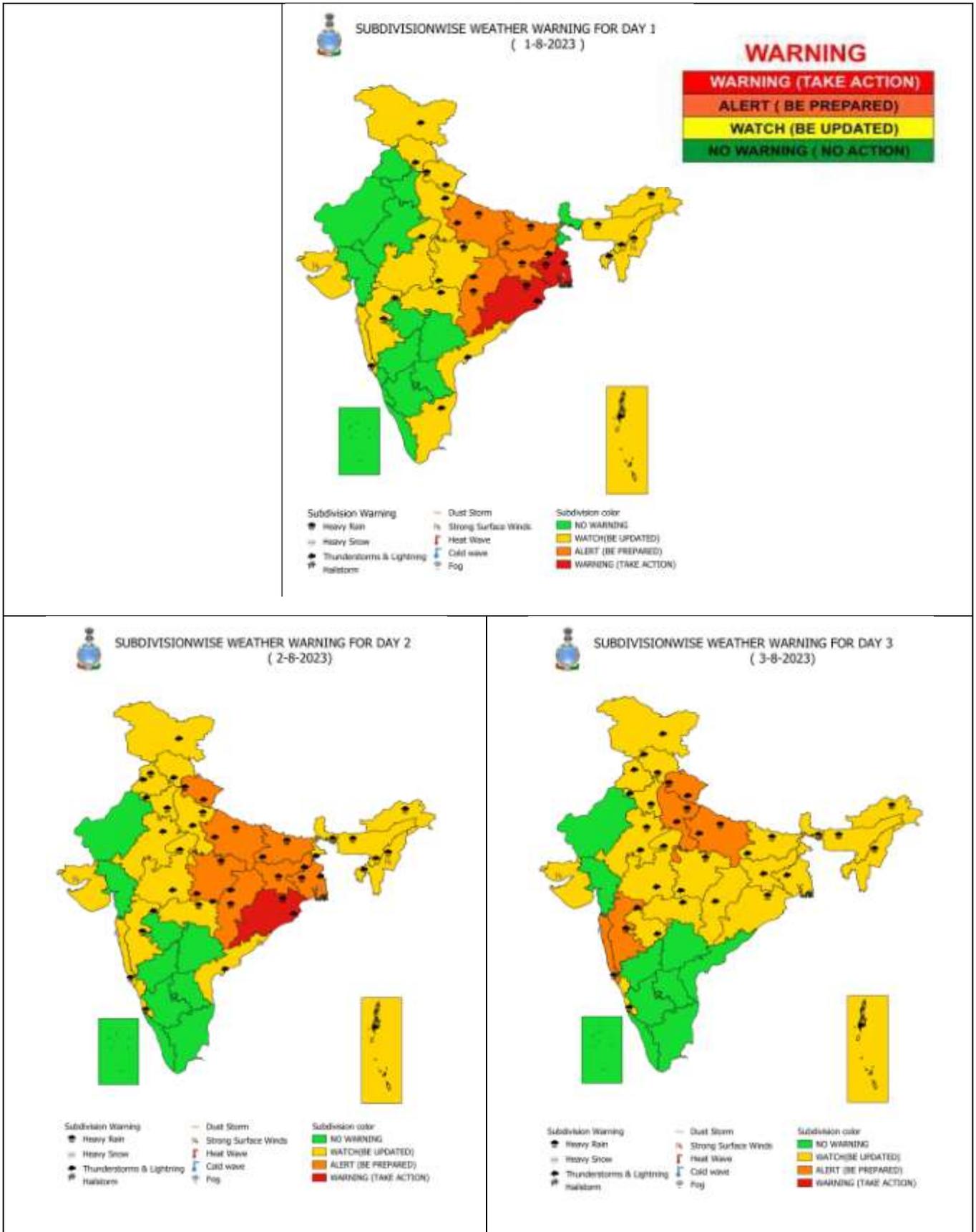
● LESS THAN 34 KT
 ○ 34-47 KT
 ● ≥ 48 KT
 — OBSERVED TRACK
 — FORECAST TRACK
 ▲ CONE OF UNCERTAINTY
 AREA OF MAXIMUM SUSTAINED WIND SPEED:
 ■ 28-33 KT (52-61 KMPH)
 ■ 34-49 KT (62-91 KMPH)
 ■ 50-63 KT (92-117 KMPH)
 ■ ≥ 64 KT (≥118 KMPH)

IMPACT OVER THE SEA

MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

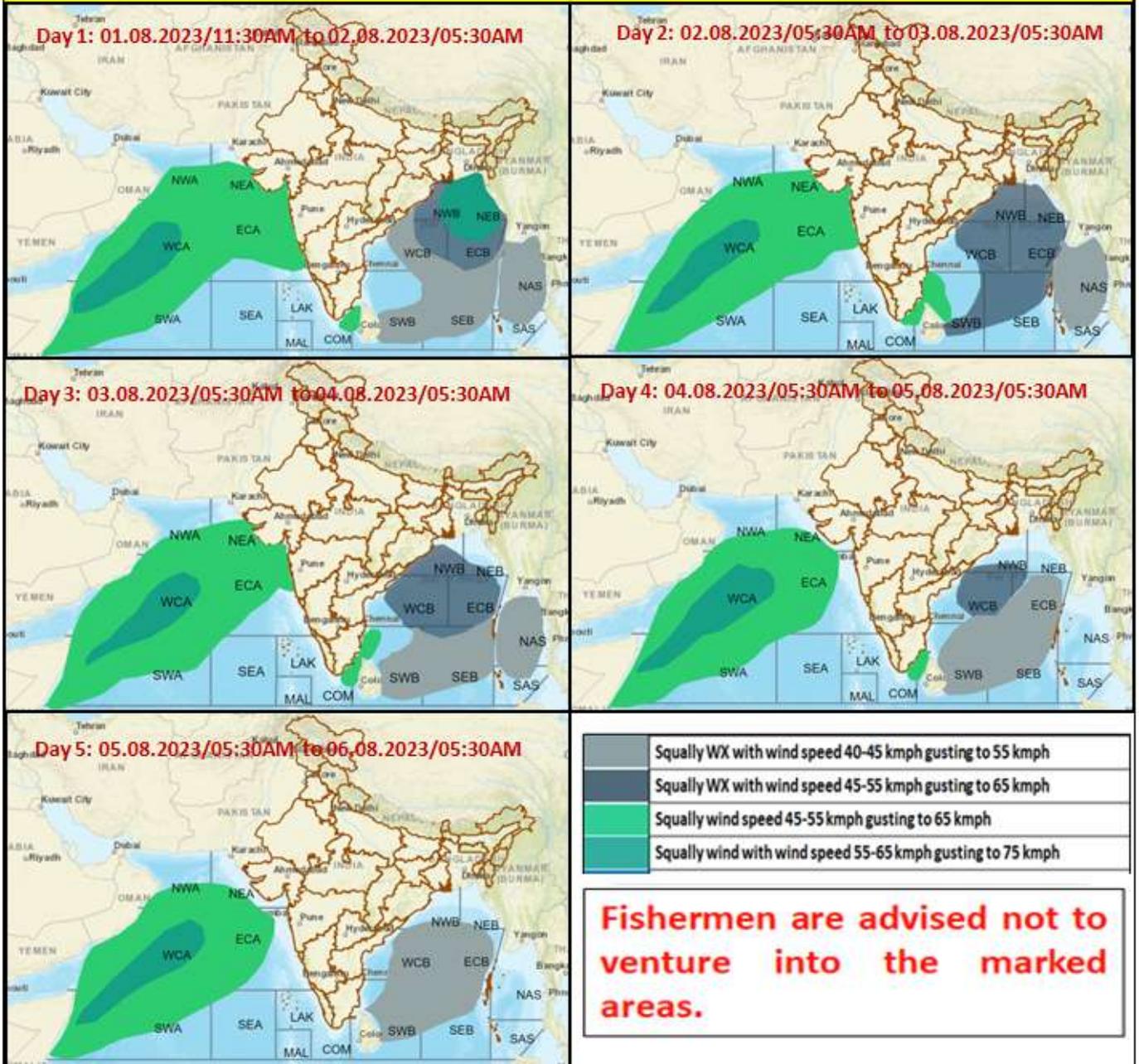
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
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Weather Warning Graphics



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Fishermen warning graphics



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 Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.