



**India Meteorological Department
(Ministry of Earth Sciences)**

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Sub: Depression over Northeast Madhya Pradesh

The depression over Northeast Madhya Pradesh moved west-northwestwards during past 06 hours with a speed of 18 kmph and lay centered at 1730 hrs IST of today, the 21st August, 2022 over Northeast Madhya Pradesh near latitude 24.2°N and longitude 80.5°E, about 60 km north-northeast of Umaria (Madhya Pradesh), 70 km south-southeast of Satna (Madhya Pradesh) and 110 km east-northeast of Damoh (Madhya Pradesh).

It would continue to move west-northwestwards across north Madhya Pradesh and weaken into a Well Marked Low Pressure Area during next 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
21.08.22/1730	24.2/80.5	35-45 gusting to 55	Depression
21.08.22/2330	24.4/79.7	35-45 gusting to 55	Depression
22.08.22/0530	24.6/78.9	30-40 gusting to 50	Depression
22.08.22/1130	24.8/78.1	25-35 gusting to 45	Well Marked Low

Warnings:

Rainfall:

21st August: Rainfall at most places with heavy to extremely heavy falls at isolated places is very likely over West Madhya Pradesh. Rainfall at most places with heavy to very heavy rainfall at isolated places is very likely over East Rajasthan and East Madhya Pradesh. Heavy rainfall at isolated places is very likely over southeast and southwest Uttar Pradesh.

22nd August: Rainfall at most places with heavy to extremely heavy rainfall at isolated places is very likely over west Madhya Pradesh and East Rajasthan; heavy to very heavy rainfall at isolated places is very likely over Madhya Maharashtra and heavy rainfall at isolated places is very likely over West Rajasthan and North Gujarat region.

23rd August: Rainfall at most places with heavy to very heavy rainfall at isolated places is likely over south Rajasthan & adjoining North Gujarat and heavy rainfall at isolated places is likely over Madhya Maharashtra.

24th August: Rainfall at most places with heavy rainfall at isolated places is likely over Southwest Rajasthan.

Wind:

- **Squally wind speed reaching 30-40 gusting to 50 kmph** is likely over Northeast Madhya Pradesh around the system center during next 12 hours and **strong winds speed reaching 25-35 kmph gusting to 45 kmph** is likely to prevail over remaining North Madhya Pradesh and adjoining south Uttar Pradesh during next 24 hours.

Damage expected over North Madhya Pradesh and adjoining South Uttar Pradesh:

- Damage to loose/unsecured structures. Some breaches in Kutcha road & embankments due to flooding.
- Damage to small trees like Banana, Papaya etc. Damage to standing crops and horticulture.
- Localized Flooding of roads, water logging in low lying areas and closure of underpasses.
- Reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads.
- Localized Landslide/Mudslides.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Next Bulletin will be issued at 0230 hours IST of tomorrow, the 22nd August, 2022.

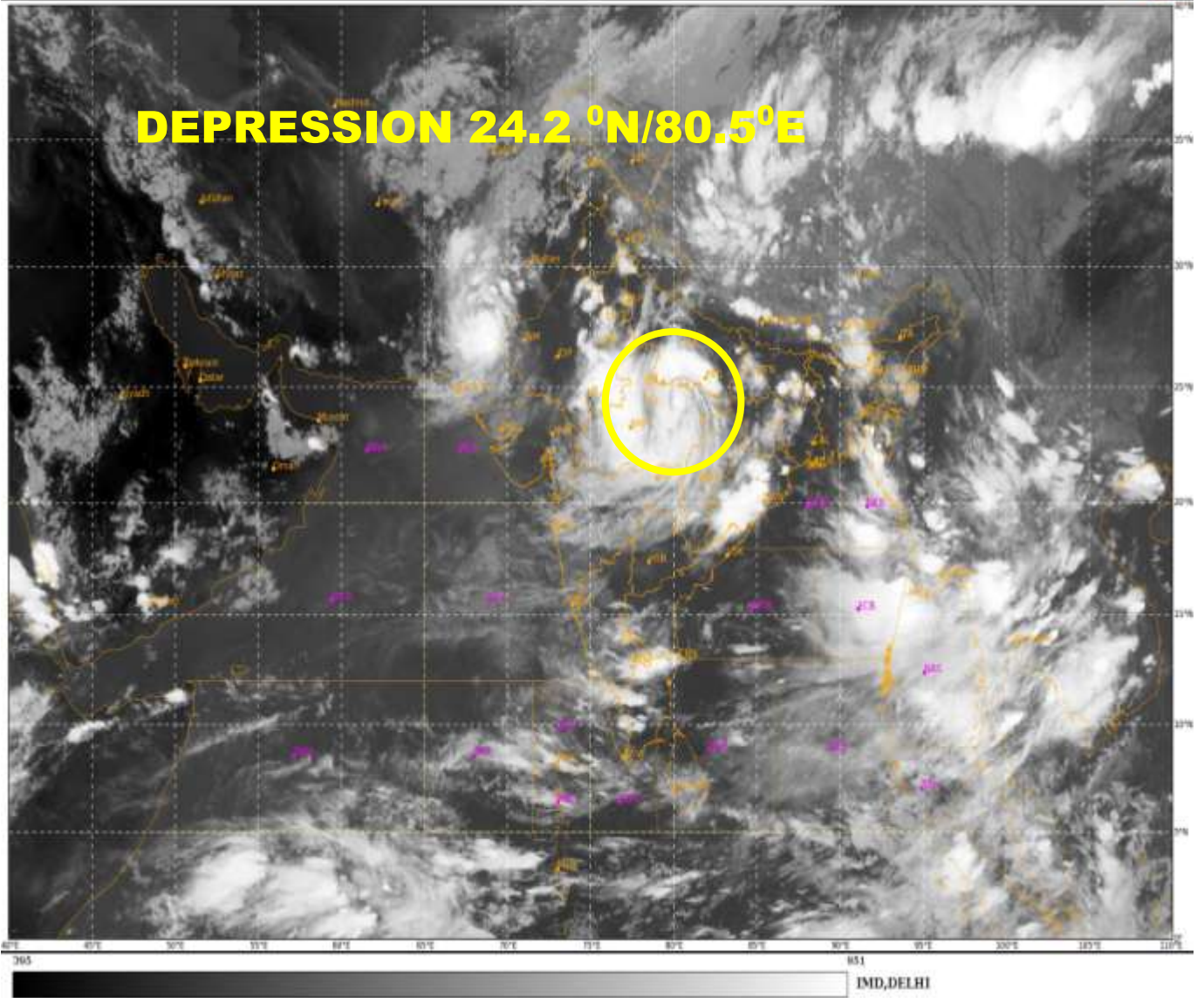
(Ananda Kumar Das)
Scientist E, Cyclone Warning Division, New Delhi

Copy to: ACWC Mumbai/ ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWCVisakhapatnam/ / MO Port Blair/MC Raipur/MC Bhopal/MC Hyderabad/RMC Nagpur/

LEGEND: Heavy Rainfall: 64.5 to 115.5mm, **Very Heavy Rainfall:** 115.6 to 204.4mm **Extremely Heavy Rainfall:** more than 204.5 mm, **Most Places:** more than 76% of total stations, **Many Places:** 50% to 75% of total stations, **Isolated Places:** Less than 25% of total stations

SAT : INSAT-3D IMG
IMG_TIRI 10.8 um
LIC Mercator

21-08-2022/(1330 to 1356) GMT
21-08-2022/(1900 to 1926) IST









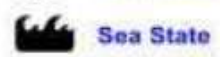
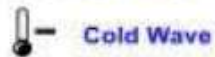
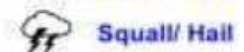
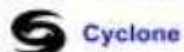
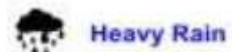
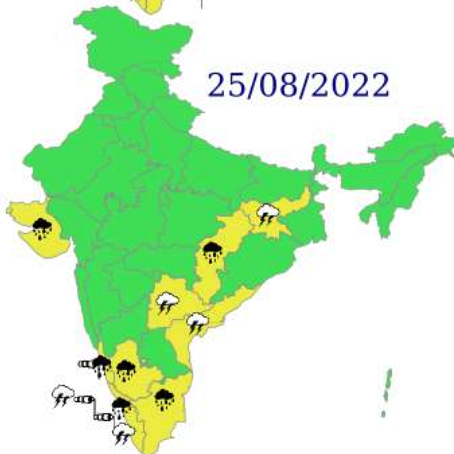
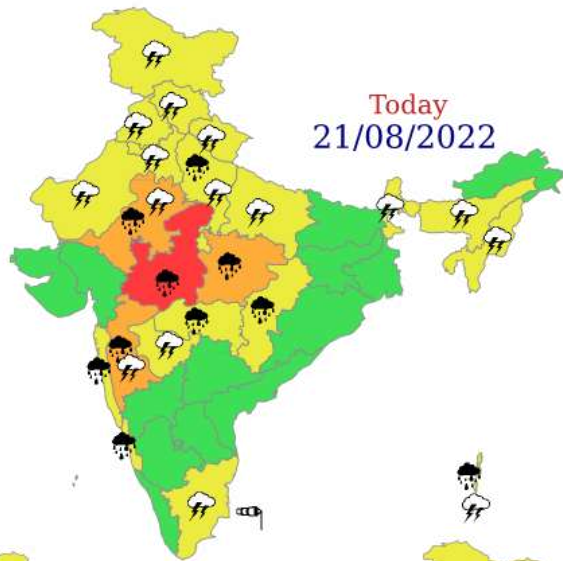


**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION
OVER NORTHEAST MADHYA PRADESH BASED ON 1200 UTC OF 21st AUGUST, 2022**



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



Fishermen warning graphics

Day 1: 21.08.2022/11:30 AM to 22.08.2022/05:30 AM



Day 2: 22.08.2022/05:30 AM to 23.08.2022/05:30 AM



Day 3: 23.08.2022/05:30 AM to 24.08.2022/05:30 AM



Day 4: 24.08.2022/05:30 AM to 25.08.2022/05:30 AM



Day 5: 25.08.2022/05:30 AM to 26.08.2022/05:30 AM

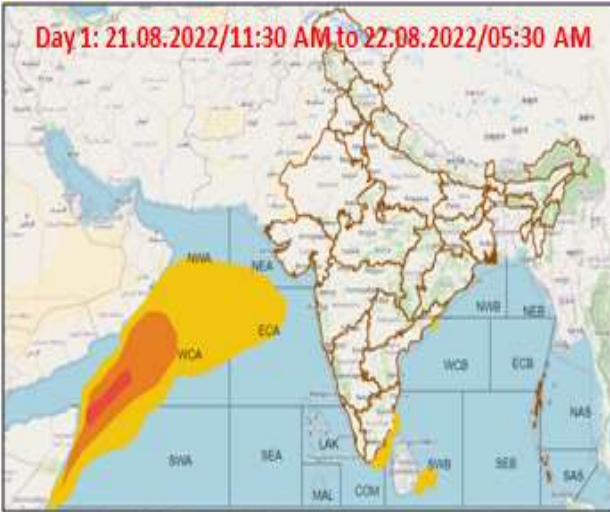


Squally WX with wind speed 40-45 gusting to 55 kmph

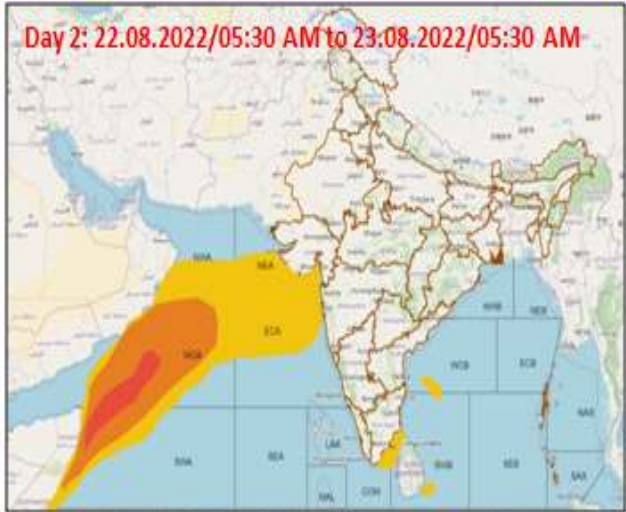
Squally wind speed 45-55 kmph gusting to 65 kmph

Probability of exceedance of maximum sustained winds ≥ 45 kmph

Day 1: 21.08.2022/11:30 AM to 22.08.2022/05:30 AM



Day 2: 22.08.2022/05:30 AM to 23.08.2022/05:30 AM



Day 3: 23.08.2022/05:30 AM to 24.08.2022/05:30 AM






Day 4: 24.08.2022/05:30 AM to 25.08.2022/05:30 AM



Day 5: 25.08.2022/05:30 AM to 26.08.2022/05:30 AM



	Probability of exceedance
	Low (1-33%)
	Moderate (34-67%)
	High (68-100%)