



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

**BULLETIN NO. : 11 (BOB/07/2022)**

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**Sub: Deep Depression over Northwest Chhattisgarh and adjoining Northeast Madhya Pradesh & Southeast Uttar Pradesh**

The Deep Depression over north Chhattisgarh and adjoining Jharkhand moved west-northwestwards during past 06 hours with a speed of 12 kmph and lay centered at 2330 hrs IST of yesterday, the 20<sup>th</sup> August, 2022 over Northwest Chhattisgarh and adjoining Northeast Madhya Pradesh & Southeast Uttar Pradesh near latitude 23.5°N and longitude 82.9°E, about 50 km northwest of Ambikapur (Chhattisgarh), 120 km south of Churk (Uttar Pradesh), 240 km east-southeast of Satna and 200 km east of Umaria (Madhya Pradesh).

It would continue to move west-northwestwards across north Madhya Pradesh and weaken into a depression during next 12 hours.

Forecast track and intensity are given in the following table:

<b>Date/Time(IST)</b>	<b>Position (Lat. °N/ long. °E)</b>	<b>Maximum sustained surface wind speed (Kmph)</b>	<b>Category of cyclonic disturbance</b>
20.08.22/2330	23.5/82.9	45-55 gusting to 65	Deep Depression
21.08.22/0530	23.7/82.1	45-55 gusting to 65	Deep Depression
21.08.22/1130	23.8/81.2	45-55 gusting to 65	Deep Depression
21.08.22/1730	23.9/80.0	40-50 gusting to 60	Depression
21.08.22/2330	23.9/78.8	35-45 gusting to 55	Depression

## **Warnings:**

### **Rainfall:**

**21<sup>st</sup> August:** Rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy falls at isolated places is very likely over West Madhya Pradesh and adjoining East Madhya Pradesh. Rainfall at most places is very likely with heavy to very heavy rainfall at isolated places over East Rajasthan and rest parts of East Madhya Pradesh. Heavy rainfall at isolated places is very likely over north Chattisgarh & Vidarbha.

**22<sup>nd</sup> August:** Rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places very likely over East Rajasthan; heavy to very heavy rainfall at isolated places over West Madhya Pradesh and heavy rainfall at isolated places over West Rajasthan and North Gujarat region.

**23<sup>rd</sup> August:** Rainfall at most places with heavy to very heavy rainfall at isolated places is likely over South Rajasthan & adjoining North Gujarat.

**24<sup>th</sup> 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 North Chhattisgarh and adjoining areas of south Uttar Pradesh, Jharkhand and northwest Odisha during next 12 hours and **strong winds speed reaching 25-35 kmph gusting to 45 kmph** is likely to prevail over North Madhya Pradesh and adjoining areas of South Uttar Pradesh and East Rajasthan during next 24 hours.

### **Damage expected over north Chattisgarh and North & Central Madhya 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 0830 hours IST of today, the 21<sup>st</sup> August, 2022.**

**(Krishna Mishra)**

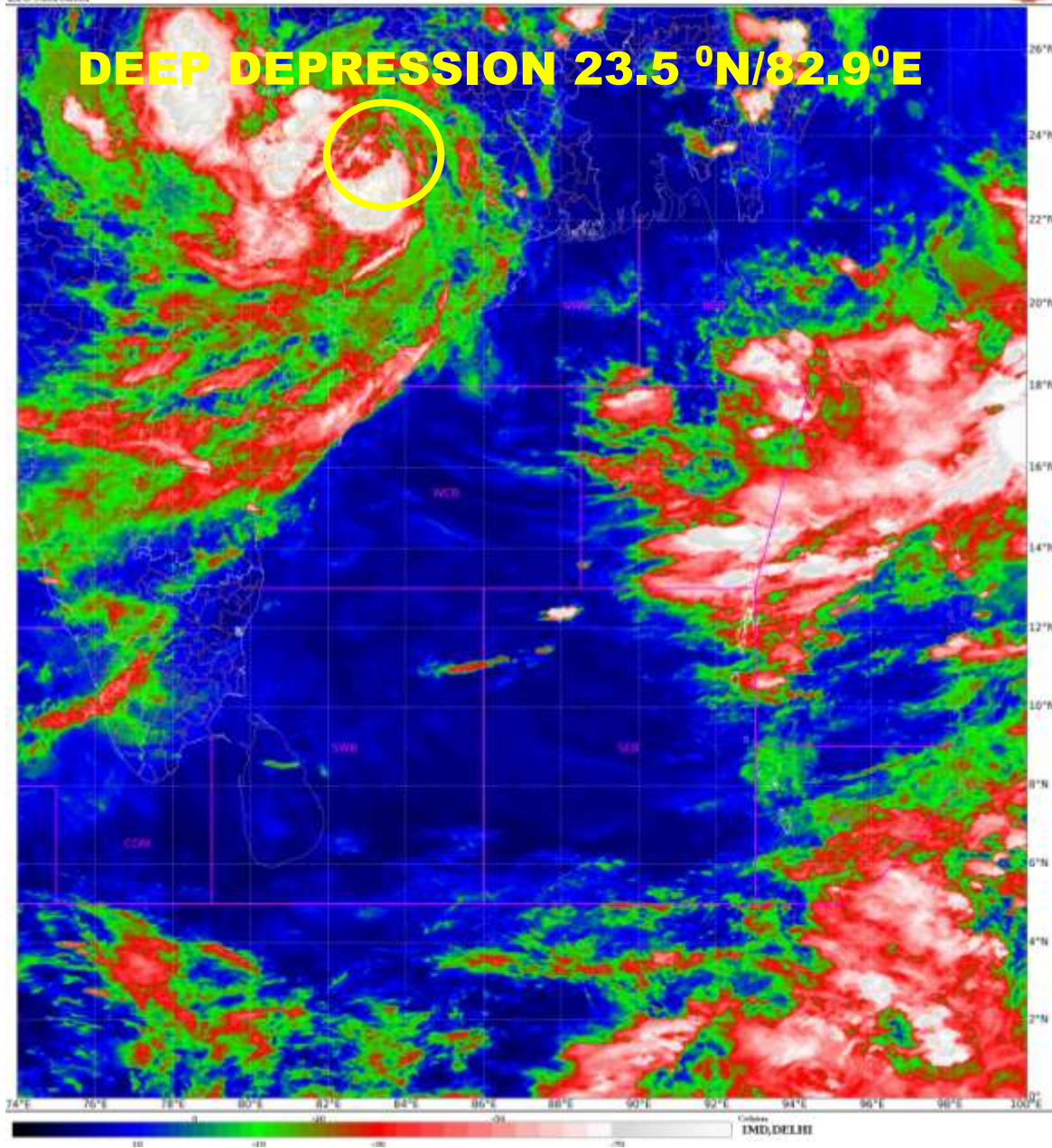
**Scientist C, Cyclone Warning Division, New Delhi**

*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-3DR IMG  
IMG\_TIR1\_TEMP 10.8 um  
LIC Mercator

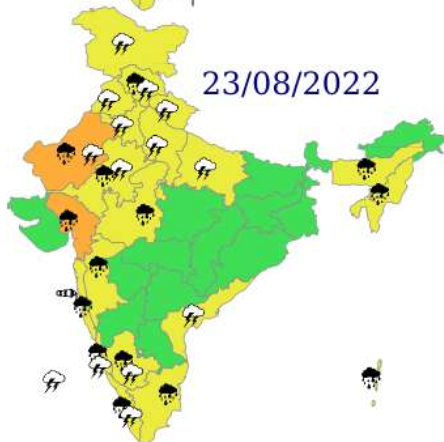
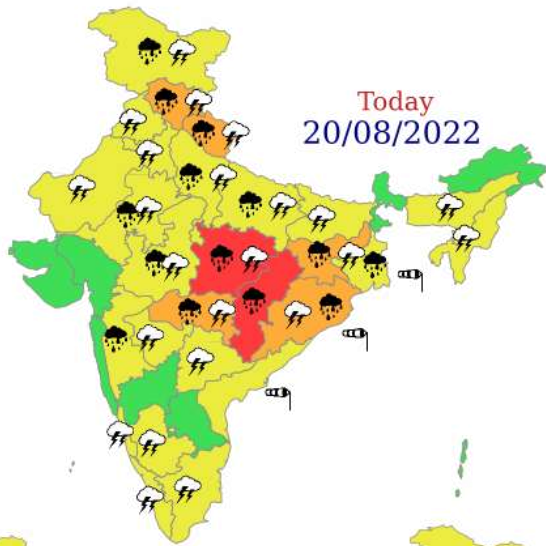
20-08-2022(1745 to 1812) GMT  
20-08-2022:(2315 to 2342) IST



**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER NORTHWEST CHHATTISGARH AND ADJOINING NORTHEAST MADHYA PRADESH & SOUTHEAST UTTAR PRADESH BASED ON 1800 UTC OF 20<sup>th</sup> AUGUST, 2022**







- |              |            |              |              |
|--------------|------------|--------------|--------------|
| Heavy Rain   | Heavy Snow | Thunderstorm | Dust Storm   |
| Strong Winds | Visibility | Cyclone      | Squall/ Hail |
| Frost        | Cold Wave  | Heat Wave    | Sea State    |

## Fishermen warning graphics

Day 1: 20.08.2022/11:30 AM to 21.08.2022/05:30 AM



Day 2: 21.08.2022/05:30 AM to 22.08.2022/05:30 AM



Day 3: 22.08.2022/05:30 AM to 23.08.2022/05:30 AM



Day 4: 23.08.2022/05:30 AM to 24.08.2022/05:30 AM



Day 5: 24.08.2022/05:30 AM to 25.08.2022/05:30 AM

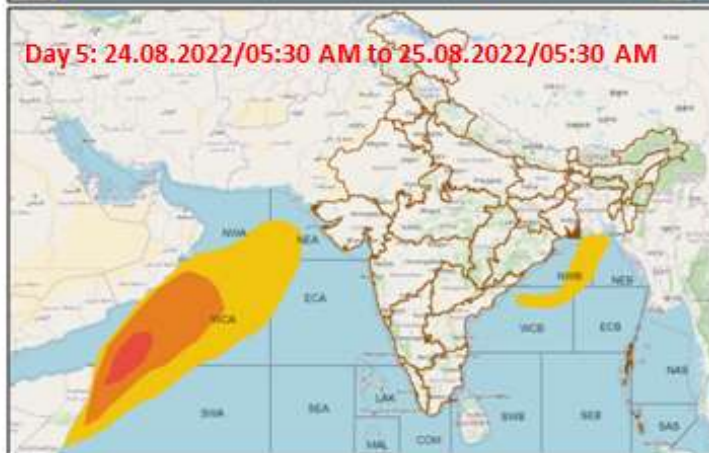
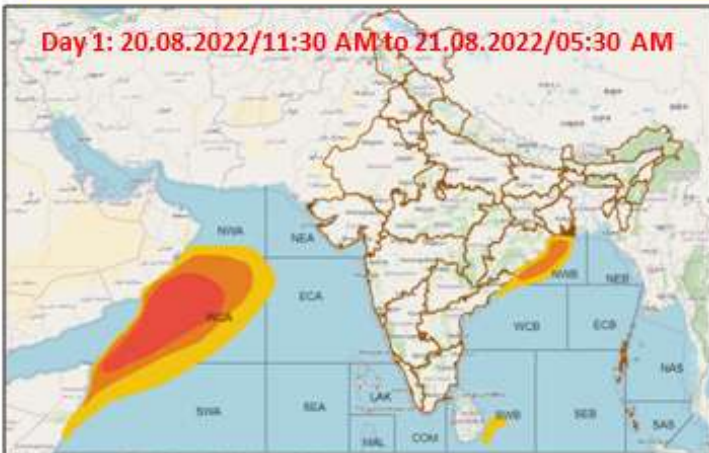



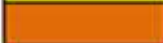

Squally WX with wind speed 40-45 gusting to 55 kmph

Squally wind speed 40-50 kmph gusting to 60 kmph

Squally wind speed 45-55 kmph gusting to 65 kmph

## Probability of exceedance of maximum sustained winds $\geq 45$ kmph



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