



India Meteorological Department
(Ministry of Earth Sciences)

BULLETIN NO. : 10 (BOB/07/2022)

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Sub: Deep Depression over North Chhattisgarh and adjoining Jharkhand

The Deep Depression over Southwest Jharkhand and adjoining Northwest Odisha & North Chhattisgarh moved west-northwestwards during past 06 hours with a speed of 20 kmph and lay centered at 1730 hrs IST of today, the 20th August, 2022 over north Chhattisgarh and adjoining Jharkhand near latitude 23.3°N and longitude 83.6°E, about 30 km east-northeast of Ambikapur (Chhattisgarh), 150 km south-southeast of Churk (Uttar Pradesh) and 270 km east of Umaria (Madhya Pradesh).

It would continue to move west-northwestwards across North Chhattisgarh towards north Madhya Pradesh and weaken into a depression during next 12 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
20.08.22/1730	23.3/83.6	45-55 gusting to 65	Deep Depression
20.08.22/2330	23.6/82.5	45-55 gusting to 65	Deep Depression
21.08.22/0530	23.8/81.2	40-50 gusting to 60	Depression
21.08.22/1130	23.9/80.0	40-50 gusting to 60	Depression

Warnings:

Rainfall:

20th August: Rainfall at most places with **heavy to very heavy rainfall** at a few places and **extremely heavy** rainfall at isolated places is very likely over North Chattisgarh & East Madhya Pradesh. Rainfall at many places with heavy to very heavy rainfall at isolated places is likely over southeast Uttar Pradesh. Rainfall at most places with **heavy rainfall** at isolated places is

likely over Northwest Odisha, Jharkhand & Vidarbha, south Chhattisgarh and West Madhya Pradesh.

21st August: Rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy rainfall 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 heavy rainfall at isolated places is very likely over Chhattisgarh & Vidarbha.

22nd August: Rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places is very likely over East Rajasthan and heavy rainfall at isolated places is 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.

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 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 Northeast Madhya Pradesh, Southeast Uttar Pradesh and adjoining areas of Chhattisgarh & Northwest Madhya Pradesh during subsequent 12 hours.

Damage expected over Chattisgarh, Madhya Pradesh & Northwest Odisha and Jharkhand:

- Damage to loose/unsecured structures. Some breaches in Kutcha road & embankments due to flooding.
- Damage to small trees like Banana, Papaya etc. and near coastal agriculture due to salt spray. 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 message will be issued at 0230 hours IST of tomorrow, the 21st 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



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER NORTH CHHATTISGARH ADJOINING JHARKHAND BASED ON 1200 UTC OF 20th AUGUST, 2022



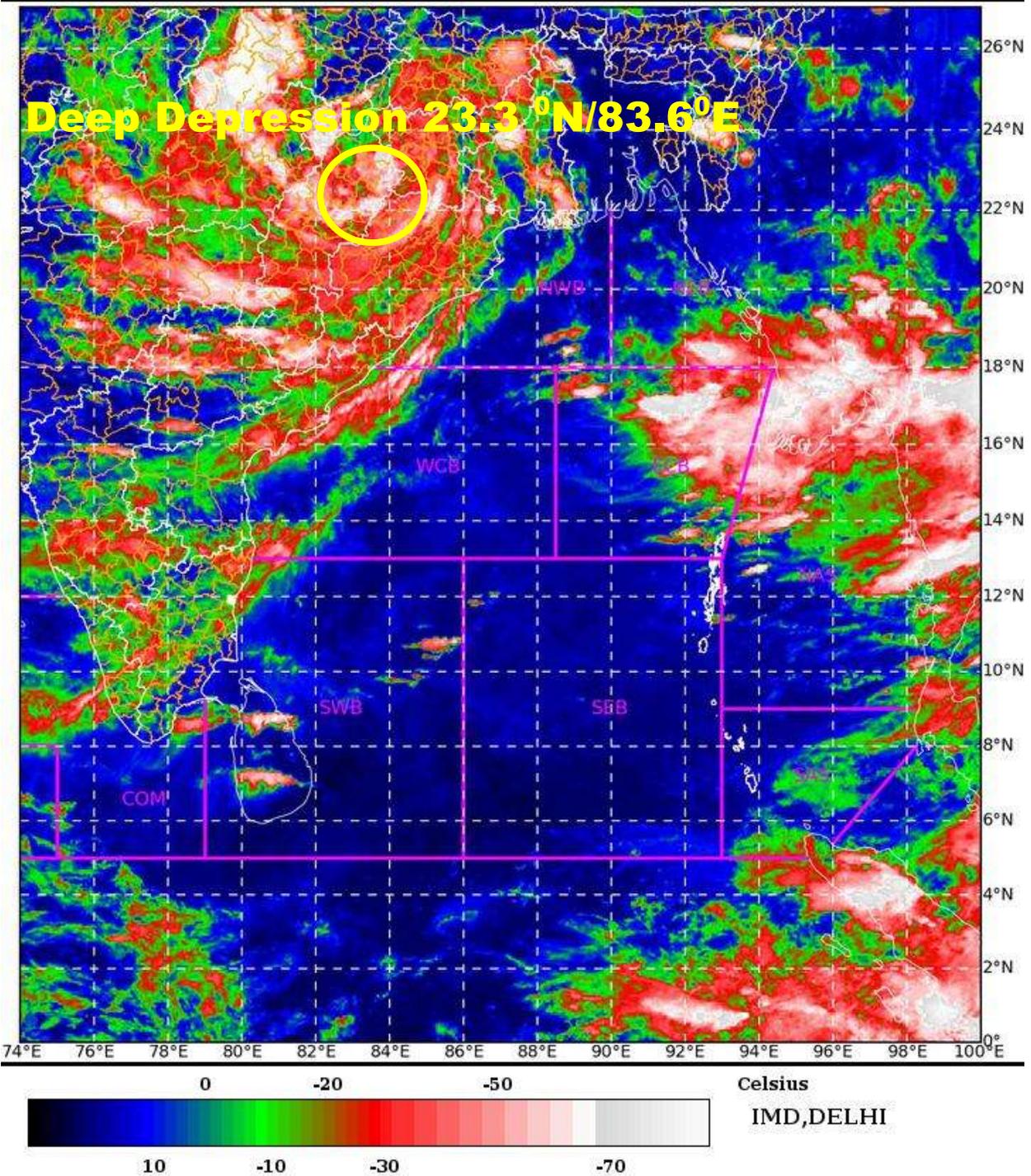
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
 SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

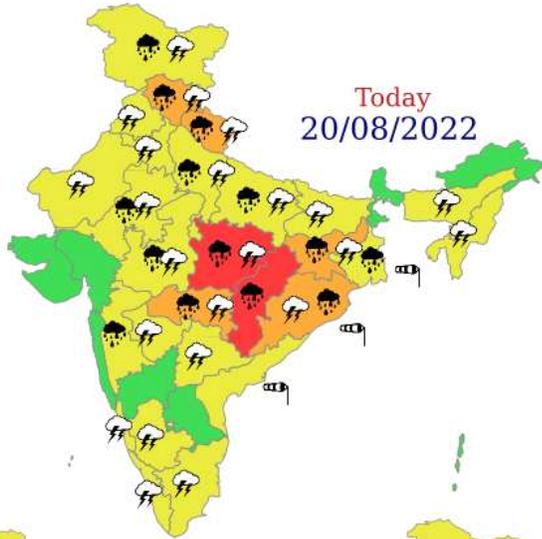
- LESS THAN 34 KT
- 34.47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

SAT : INSAT-3DR IMG 20-08-2022/(1245 to 1312) GMT

IMG_TIR1_TEMP 10.8 um 20-08-2022/(1815 to 1842) IST

L1C Mercator





- | | | | |
|--|--|--|--|
|  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

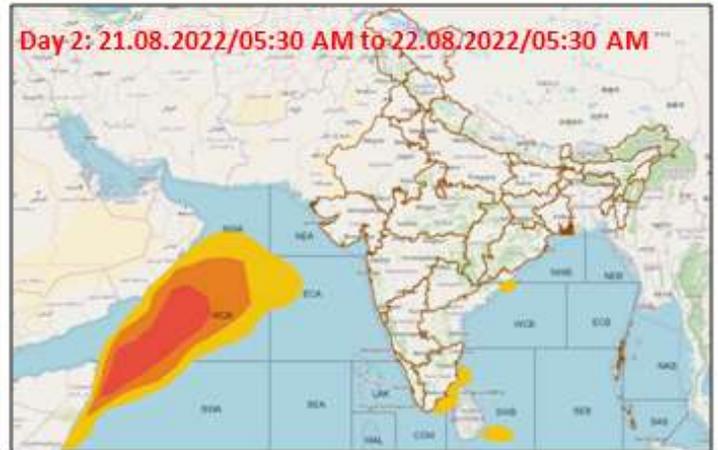


Day 5: 24.08.2022/05:30 AM to 25.08.2022/05:30 AM



	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 ≥ 45 kmph



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