



**Government of India  
Ministry of Earth Sciences  
India Meteorological Department**

**Press Release  
Date: 21<sup>st</sup> August, 2022  
Time of Issue: 1215 hrs IST**

**Subject: i) Depression over northwest Chhattisgarh & adjoining northeast Madhya Pradesh.  
ii) Subdued rainfall over southern parts of Peninsula likely to continue during next 2 days.**

**Weather observed during past 24 hours ending at 0830 hrs IST of today: (Refer Annex. I)**

**Weather systems, rainfall/thunderstorm Forecast & Warnings: (Warning Graphics in Annexure II)**

- Yesterday's Deep Depression over south Jharkhand & adjoining North Odisha moved west-northwestwards and weakened into a Depression over northwest Chhattisgarh and adjoining northeast Madhya Pradesh & southeast Uttar Pradesh at 0530 hours IST of 21<sup>st</sup> August. It further moved west-northwestwards during past 06 hours with a speed of 14 kmph and lay centered at 0830 hrs IST of today, the 21<sup>st</sup> August, 2022 over Northwest Chhattisgarh and adjoining northeast Madhya Pradesh near latitude 23.8°N and longitude 81.7°E, about 80 km east-northeast of Umaria (Madhya Pradesh), 120 km southeast of Satna (Madhya Pradesh) and 220 km east 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. **(Annexure III).**
- The western end of the monsoon trough at mean sea level continues to run along the foothills of Himalayas and its eastern end runs south of the normal position.
- **Under the influence of the above systems:**
  - **Fairly widespread/widespread light/moderate rainfall with isolated heavy to very heavy rainfall with extremely heavy falls very likely over West Madhya Pradesh on 21st & 22nd and East Rajasthan on 22nd August, 2022.**
  - Fairly widespread/widespread light/moderate rainfall with **isolated heavy to very heavy falls** and thunderstorm/lightning very likely over East Madhya Pradesh on 21st, East Rajasthan on 21st & 23rd, ghat areas of Madhya Maharashtra on 21st & 22nd, West Rajasthan and northern parts of Gujarat Region on 23rd August, 2022.
  - Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls** and thunderstorm/lightning very likely over Vidarbha on 21st, Chhattisgarh on 21st & 25th, Konkan & Goa on 21st & 22nd, East Madhya Pradesh & northern parts of Gujarat Region on 22nd, West Rajasthan on 22nd & 24th; Gangetic West Bengal, ghat area of Madhya Maharashtra & Odisha on 23rd and Saurashtra & Kutch on 24th & 25th August, 2022.

- Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over southwest Uttar Pradesh on 21<sup>st</sup>, south Haryana on 22<sup>nd</sup>, Himachal Pradesh on 23<sup>rd</sup> & 24<sup>th</sup> and Uttarakhand on 24<sup>th</sup> August, 2022.
- Fairly widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 22<sup>nd</sup> & 23<sup>rd</sup> August, 2022.
- Fairly widespread to widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Coastal Karnataka on 21<sup>st</sup>, 22<sup>nd</sup>, 24<sup>th</sup> & 25<sup>th</sup>; South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal during 23<sup>rd</sup> -25<sup>th</sup> August, 2022.
- Widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Andaman & Nicobar Islands during 21<sup>st</sup> & 22<sup>nd</sup> August, 2022.

For more details kindly refer:

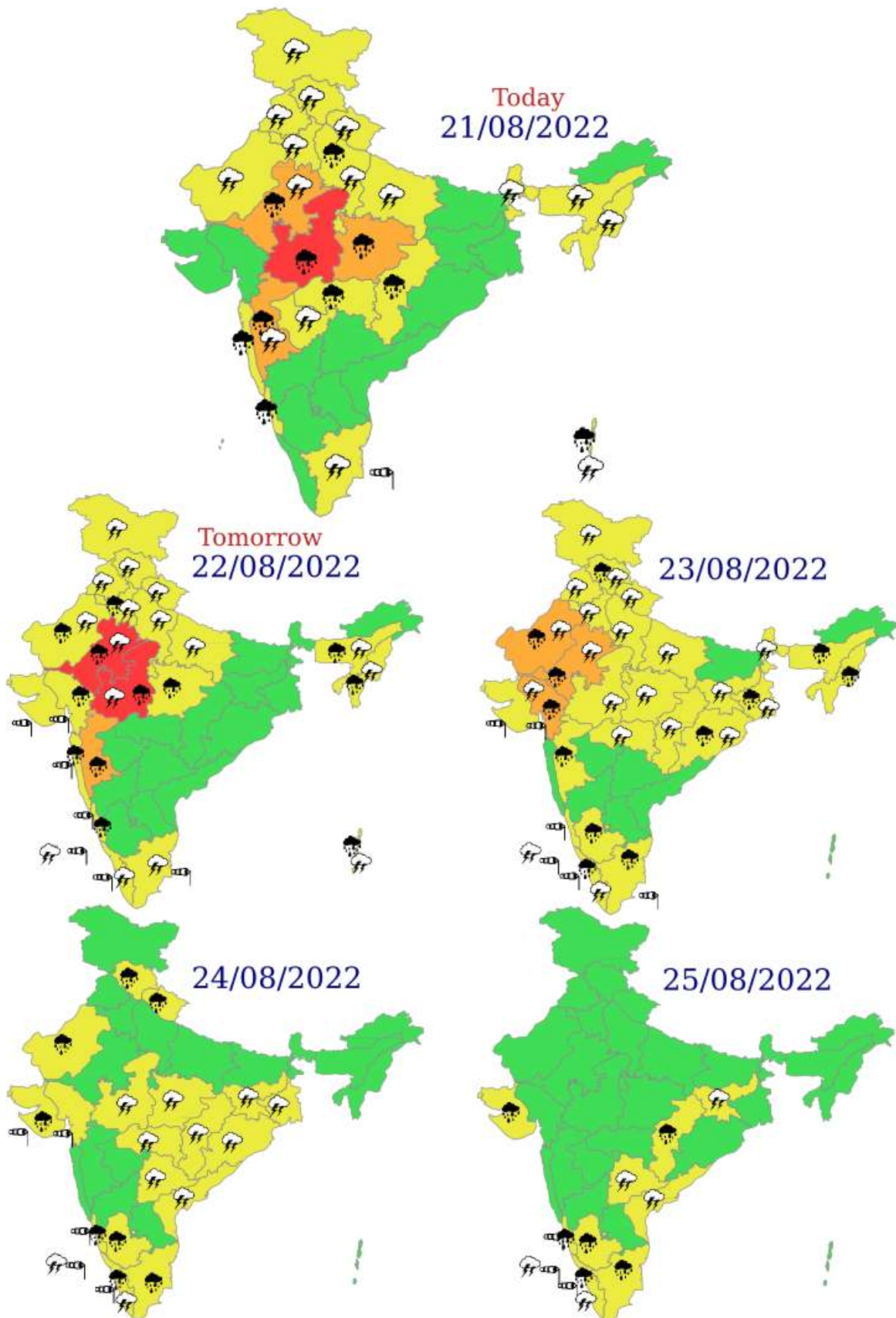
[https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forcast\\_bulletin.php](https://mausam.imd.gov.in/imd_latest/contents/all_india_forcast_bulletin.php)

## Annexure I

**Heavy to very heavy rainfall** at isolated places occurred over Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha and **heavy rainfall** at isolated places over Jammu & Kashmir, Himachal Pradesh, Assam & Meghalaya, Madhya Maharashtra and Coastal Karnataka.

### Rainfall (in cm):

- ❖ **Odisha:** Sundargarh: Banaigarh-14, Bargaon-9, Rayagada: Ambadola-10.
- ❖ **East Madhya Pradesh:** Channodi (dist Shahdol) 17, Orchha (dist Niwari) 16, Benibari (dist Anuppur) 16, Niwari (dist Niwari) 15, Anuppur-aws (dist Anuppur) 15, Panna-aws (dist Panna) 15, Mohangarh (dist Tikamgarh) 15, Umari-aws (dist Umari) 14, Venkatnagar (dist Anuppur) 14, Amarpur (dist Dindori) 13, Jaitpur (dist Shahdol) 12, Pushprajgarh (dist Anuppur) 12, Kareli (dist Narsinghpur) 12, Pali (dist Umari) 12, Dindori-aws (dist Dindori) 12.
- ❖ **West Madhya Pradesh:** Chanderi (dist Ashoknagar) 15, Pichhore (dist Shivpuri) 13, Pathari (dist Vidisha) 12, Khaniyadana (dist Shivpuri) 10, Gairatgang (dist Raisen) 9, Isagarh (dist Ashoknagar) 8, Mungaoli (dist Ashoknagar) 8, Begumganj (dist Raisen) 8, Udaipura (dist Raisen) 7, Badarwas (dist Shivpuri) 7, Ater (dist Bhind) 7, Pipariya (dist Narmadapuram) 7, Guna-aws (dist Guna) 7, Kumbhraj (dist Guna) 7, Ganjbasoda (dist Vidisha) 7, Gormi (dist Bhind) 7, Bhandar (dist Datia) 7.
- ❖ **Chhattisgarh:** Kusmi (dist Balrampur) 15, Ramanujnagar (dist Surajpur) 13, Premnagar (dist Surajpur) 9, Rajpur (dist Balrampur) 9, Khadgava (dist Koriya) 9, Surajpur (dist Surajpur) 9, Balrampur (dist Balrampur) 9, Odagi (dist Surajpur) 9, Bhaiyathan (dist Surajpur) 8, Sonhat (dist Koriya) 8, Baikunthpur (dist Koriya) 8, Bagicha (dist Jashpur) 8, Lailunga (dist Raigarh) 8, Duldula (dist Jashpur) 7, Janakpur (dist Koriya) 7, Jashpurnagar (dist Jashpur) 7, Pendra Road (dist Bilaspur) 7, Ambikapur (dist Surguja) 7, Manora (dist Jashpur) 7.
- ❖ **Jharkhand:** Simdega: Bano Simdega Kvk Aws-13; Ranchi: Mandar-11, Ranchi Aero -7; Bokaro: Gomia-10; Gumla: Gumla Bishnupur Kvk Aws -10; Khunti: Diyakel Khunti Kvk Aws-10.
- ❖ **Himachal Pradesh:** Chamba: Dalhousi Alha Aws-7.
- ❖ **Punjab:** Ranjit Sagar Dam Site (dist Pathankot) 8.
- ❖ **East Uttar Pradesh:** Chitrakoot-9, Pratapgarh-8, Sonbhadra-8.
- ❖ **Coastal Karnataka:** Udipi (dist Udipi) 11, Kota (dist Udipi) 8.
- ❖ **Jammu & Kashmir:** Reasi: Katra-7.



## EXPECTED IMPACT & ACTION SUGGESTED DUE TO-

**i) Isolated extremely heavy rainfall** over West Madhya Pradesh on 21st & 22nd and East Rajasthan on 22nd August, 2022.

**ii) Isolated very heavy rainfall** over East Madhya Pradesh on 21st, East Rajasthan on 21st & 23rd, ghat areas of Madhya Maharashtra on 21st & 22nd, West Rajasthan and northern parts of Gujarat Region on 23rd August, 2022.

### A. Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

### B. Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.



**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER NORTHWEST CHHATISGARH AND ADJOINING NORTHEAST MADHYA PRADESH BASED ON 0300 UTC OF 21<sup>ST</sup> 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

**Legends:**

**Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

**Region wise classification of meteorological Sub-Divisions:**

- 1) **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

<b>SPATIAL DISTRIBUTION</b> (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)



<b>WARNING</b>	
WARNING (TAKE ACTION)	
ALERT ( BE PREPARED)	
WATCH (BE UPDATED)	
NO WARNING ( NO ACTION)	

<b>Probabilistic Forecast</b>	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

