



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 21st September, 2022
Time of Issue: 1230 hrs IST

Subject: Heavy rainfall spell over Chhattisgarh, Vidarbha, Madhya Pradesh, Uttar Pradesh, Haryana and East Rajasthan during next 2-3 days in association with the Low Pressure Area over northeast Madhya Pradesh & neighbourhood.

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

Withdrawal of Southwest Monsoon

- The line of withdrawal of Southwest Monsoon passes through Khajuwala, Bikaner, Jodhpur and Naliya.

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

- Yesterday's **Low Pressure Area** over Northwest Bay of Bengal & adjoining north Odisha-West Bengal coasts now lies over northeast Madhya Pradesh & neighbourhood. It is very likely to move west-northwestwards during next 2 days.
- A trough runs from northwest Bay of Bengal to north Punjab across cyclonic circulation associated with Low Pressure Area over northeast Madhya Pradesh & neighbourhood in lower tropospheric levels.
- The **Western Disturbance** as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 67°E to the north of Lat. 28°N.
- In addition, there is high moisture feed from Arabian Sea over northwest India in lower tropospheric levels and likely to continue during next 2 days.
- **Under the influence of above systems:**
 - Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Odisha & Telangana on 21st; Vidarbha, Chhattisgarh, Madhya Maharashtra and Marathwada on 21st & 22nd and Madhya Pradesh during 21st-23rd September, 2022. **Isolated very heavy rainfall also likely over East Madhya Pradesh on 21st and over West Madhya Pradesh on 22nd September, 2022.**
 - Scattered/Fairly widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Uttarakhand and West Uttar Pradesh during 21st-25th; Haryana & Chandigarh on 21st & 22nd and over East Rajasthan and East Uttar Pradesh during 21st-23rd and **moderate rainfall likely over Delhi** on 21st & 22nd September, 2022. **Isolated very heavy rainfall also likely over East Rajasthan and East Uttar Pradesh on 22nd September, 2022.**
 - Fairly widespread/Widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Arunachal Pradesh during 22nd-24th; Assam & Meghalaya during 21st-23rd and over Nagaland, Manipur, Mizoram & Tripura on 21st & 22nd September, 2022.

For more details kindly refer:

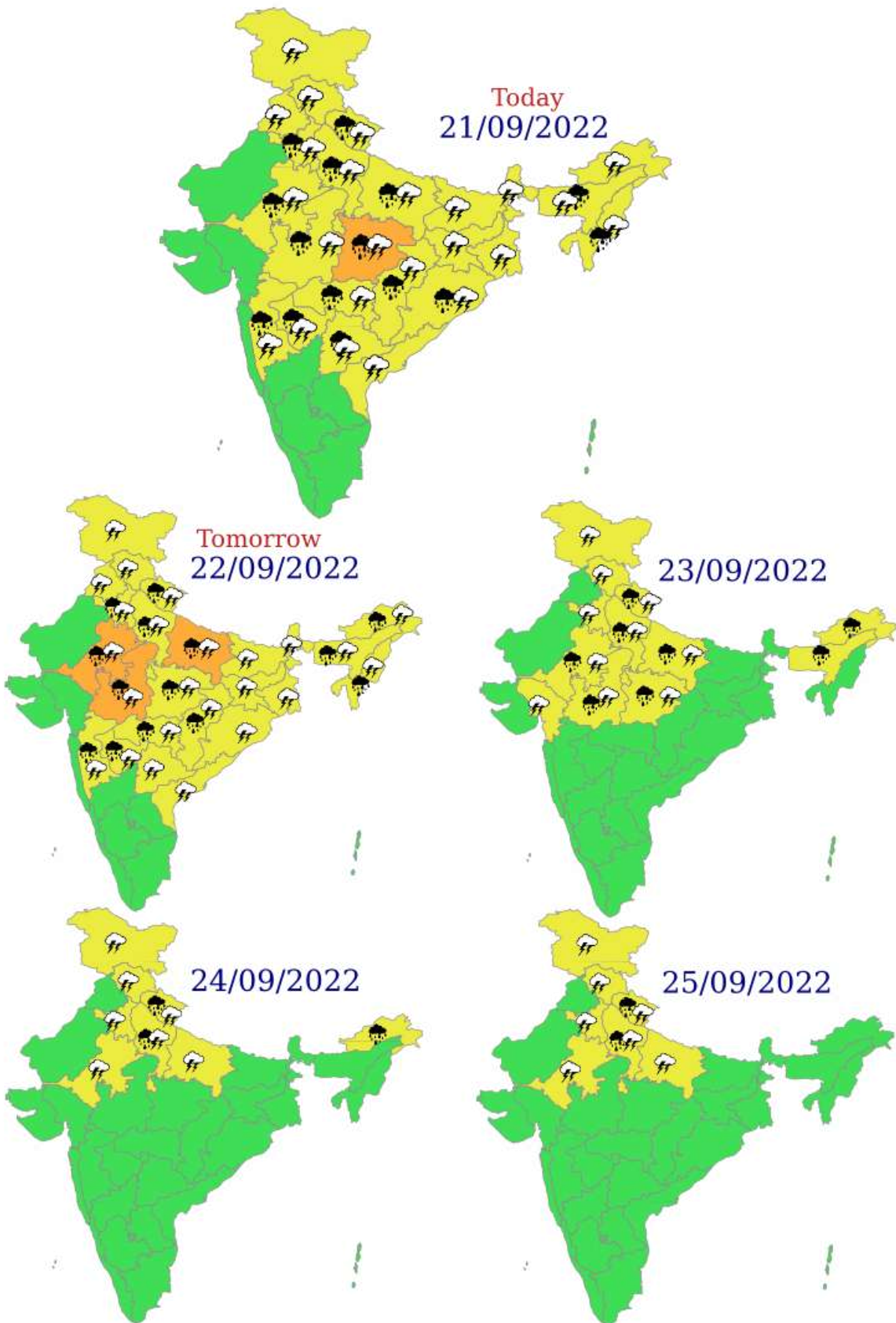
https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php

Annexure I

Very heavy rainfall occurred at isolated places over Uttar Pradesh and Odisha and **heavy rainfall** at isolated places over Delhi, Gujarat Region, Madhya Pradesh, Telangana, East Rajasthan, Telangana and Konkan & Goa.

Rainfall (in cm):

- ❖ **East Uttar Pradesh:** Kunda (dist Pratapgarh) 20, Meja (dist Prayagraj) 9, Zamania (dist Ghazipur) 7, Varanasi B.H.U (dist Varanasi) 7;
- ❖ **West Uttar Pradesh:** Tahrauli (dist Jhansi) 20, Sahaswan (dist Badaun) 18, Konch (dist Jalaun) 9;
- ❖ **Gujarat Region:** Umergam (dist Valsad) 11, Daman Fmo (dist Daman) 10, Pardi (dist Valsad) 9, Daman (dist Daman) 9;
- ❖ **East Madhya Pradesh:** Jaberia (dist Damoh) 10, Balaghat-aws (dist Balaghat) 10, Orchha (dist Niwari) 9, Badamalhera (dist Chhatarpur) 9, Kirnapur (dist Balaghat) 8, Sihawal (dist Sidhi) 8, Waraseoni (dist Balaghat) 7, Naigarhi (dist Rewa) 7, Chitrangi (dist Singrauli) 7, Bahri (dist Sidhi) 7;
- ❖ **Odisha:** Dabgan (dist Nawarangpur) 14, Deogaon (dist Jharsuguda) 8, Jujumura (dist Sambalpur) 7;
- ❖ **Telangana:** Dahegaon (dist Kumaram Bheem) 9, Venkatapur (dist Mulugu) 7, Bejjur (dist Kumaram Bheem) 7, Chennur (dist Mancherla) 7;
- ❖ **East Rajasthan:** Ghatol (dist. Banswara)-9, Kaman(dist. Bharatpur)-8;
- ❖ **Delhi:** Delhi University 9, Ridge 9;
- ❖ **Konkan & Goa:** Dahanu - Imd Obsy (dist Palghar) 8;
- ❖ **West Madhya Pradesh:** Seoni Malwa (dist Narmadapuram) 7.



IMPACT EXPECTED & ACTION SUGGESTED DUE TO-

Isolated **very heavy rainfall** over **East Madhya Pradesh on 21st** and over **West Madhya Pradesh, East Rajasthan and East Uttar Pradesh** on 22nd September, 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.

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.

| SPATIAL DISTRIBUTION (% 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) |



Heavy Rain



Strong Winds



Thunderstorm with Lightning

WARNING

| |
|-------------------------|
| WARNING (TAKE ACTION) |
| ALERT (BE PREPARED) |
| WATCH (BE UPDATED) |
| NO WARNING (NO ACTION) |

Probabilistic Forecast

| Terms | Probability of Occurrence (%) |
|-------------|-------------------------------|
| Unlikely | < 25 |
| Likely | 25 - 50 |
| Very Likely | 50 - 75 |
| Most Likely | > 75 |