



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

**Press Release
Date: 22nd September, 2022
Time of Issue: 1315 hrs IST**

**Subject: Heavy to very heavy rainfall spell over northwest India today and reduction thereafter.
No significant rainfall over the rest parts of the country during next 5 days.**

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.

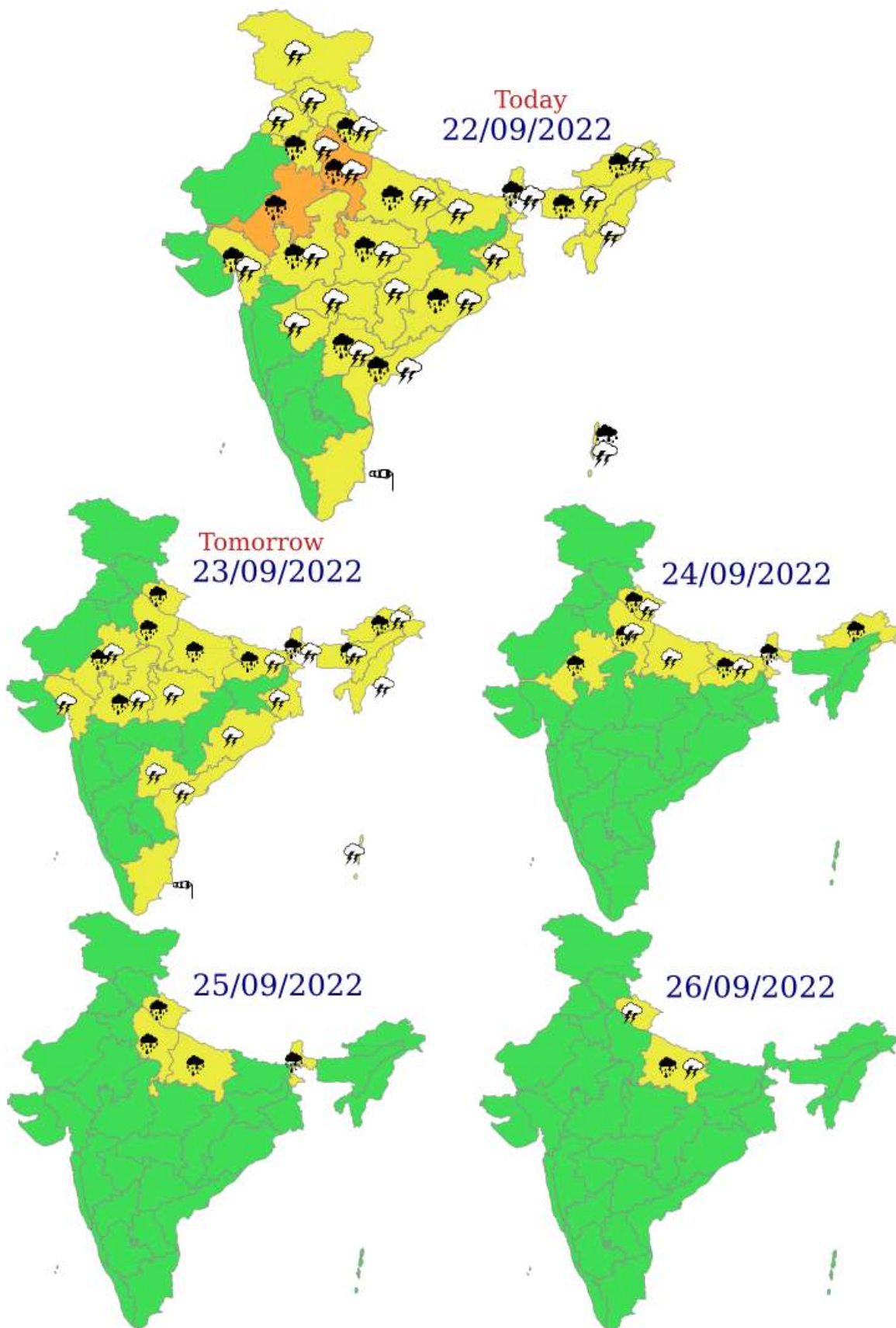
Weather systems, rainfall/thunderstorm Forecast & Warnings: (Warning Graphics in Annexure II)

- Although the **Low Pressure Area** has become less marked, the associated cyclonic circulation lies over northwest Madhya Pradesh & neighbourhood extending upto mid-tropospheric levels.
- A trough runs from northwest & adjoining westcentral Bay of Bengal to central Rajasthan across Odisha, Chhattisgarh, cyclonic circulation over Madhya Pradesh and East Rajasthan in lower tropospheric levels.
- The **Western Disturbance** as a trough in mid-tropospheric westerlies runs roughly along Long. 70°E to the north of Lat. 28°N.
- **Under the influence of above systems:**
 - Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Odisha & Telangana on 22nd, Madhya Pradesh during 22nd & 23rd September, 2022.
 - Scattered/Fairly widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Uttarakhand and West Uttar Pradesh during 22nd -25th; Haryana & Chandigarh on 22nd East Uttar Pradesh during 22nd, 23rd, 25th and 26th September and over East Rajasthan on 22nd-24th September. **Isolated very heavy rainfall also likely over East Rajasthan and West 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 22nd-23rd Sep.
 - For more details kindly refer:
https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php

Very heavy rainfall occurred at isolated places over Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh and East Rajasthan and **heavy rainfall** at isolated places over East Madhya Pradesh, Telangana, Uttarakhand, Chhattisgarh, Odisha and Gujarat Region.

Rainfall (in cm):

- ❖ **West Uttar Pradesh:** Sikandra Rao(Dist Hathras) 20, Etah(Dist. Etah) 20, Sahawar (Dist. Kasganj) 18, Jalesar(Dist. Etah) 16, Kasganj(Dist. Kasganj) 16, Etawah Obsy(Dist. Etawah) 14, Tundla (Dist. Firozabad) 13, Sahaswan(Dist. Badaun) 13, Hamirpur Obsy(Dist. Hamirpur) 12, Shikohabad(Dist. Firozabad) 12, Jasrana(Dist. Firozabad) 11, Sadabad(Dist. Hathras) 9, Maudaha(Dist. Hamirpur) 9, Budaun(Dist. Budaun) 8, Patiyali(Dist. Kasganj) 8, Agra Obsy(Dist. Agra) 8, Orai(Dist. Jalaun) 7, Aligarh(Dist. Aligarh) 7 ;
- ❖ **West Madhya Pradesh:** Khandwa (Dist Khandwa) 19, Ghatigaon (Dist Gwalior) 9, Bamori (Dist Guna) 8, Vijaypur, (Adp) (Dist Sheopur) 8, Betul (Dist Betul) 8, Bankhedi (Dist Narmadapuram) 7, Babai (Makhan, Nagar) (Dist Narmadapuram) 7, Pipariya (Dist Narmadapuram) 7, Seoni Malwa (Dist Narmadapuram) 7, Mihona (Dist Bhind) 7;
- ❖ **Sub-Himalayan West Bengal & Sikkim:** Neora(Dist. Jalpaiguri) 18, Nagarkata(Dist. Jalpaiguri) 8, Chengmari/Diana(Dist. Jalpaiguri) 7.
- ❖ **East Uttar Pradesh:** Karwi(Dist. Chitrakoot) 17, Akbarpur Knp Dht(Dist. Kanpur Dehat) 10 ;
- ❖ **East Rajasthan:** Dholpur Tehsil SR (Dist. Dholpur) 12, Rajakhera(Dist. Dholpur) 9;
- ❖ **East Madhya Pradesh:** Kumdam (Dist Jabalpur) 11, Ajaigarh (Dist Panna) 9, Waraseoni (Dist Balaghat) 8;
- ❖ **Telangana:** Bijjur(ARG) (Dist Kumaram Bheem) 9, Bejjur (Dist Kumaram Bheem) 8, Venkatapuram (Dist Mulugu) 7;
- ❖ **Uttarakhand:** Bhatwari (Dist. Uttarkashi) 9;
- ❖ **Chhattisgarh:** Bijapur (Dist Bijapur) 8;
- ❖ **Gujarat Region:** Daman_Arg (Dist Daman) 7;
- ❖ **Odisha:** Dabgan Dharakot(dist. Gangam) 7, Kalinga(dist. Kandhamar) 7



IMPACT EXPECTED & ACTION SUGGESTED DUE TO-

Isolated **very heavy rainfall** over **West Uttar Pradesh & East Rajasthan 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 kutchra 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