



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

**Press Release
Date: 15th September, 2022
Time of Issue: 1230 hrs IST**

**Subject: i) Well Marked Low Pressure Area lies over northwest Madhya Pradesh & neighbourhood.
ii) Enhanced rainfall activity with very heavy to extremely heavy falls over Uttarakhand & Uttar Pradesh during 15th-17th September, 2022.**

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)

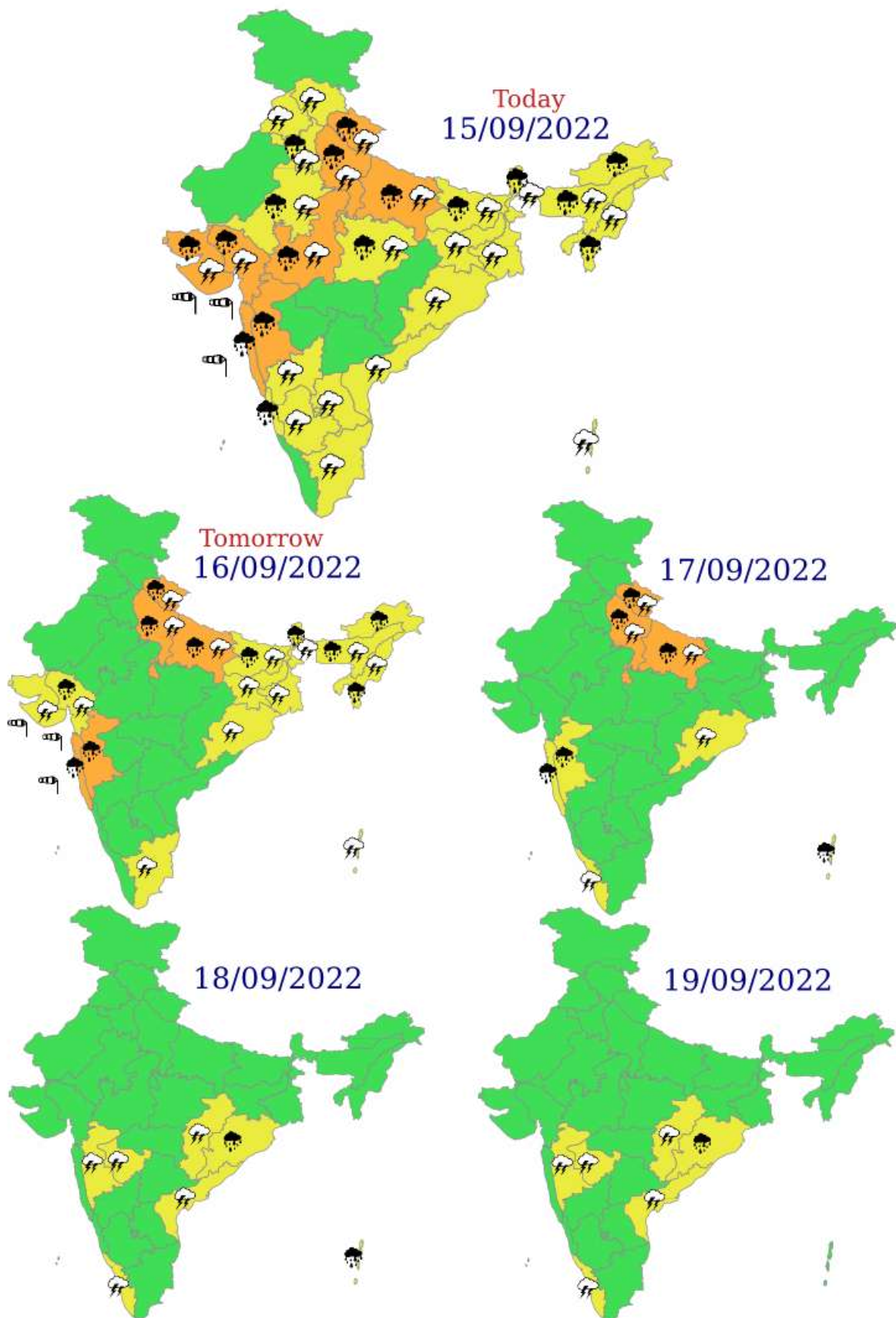
- A Western Disturbance as a trough in mid-tropospheric westerlies runs roughly along Long.70°E to the north of Lat. 27°N.
- The **Well Marked Low Pressure Area** over northwest Madhya Pradesh & neighbourhood. Due to its likely interaction with the trough in middle latitude westerlies, the system is likely to recurve gradually north-northeastwards towards East Uttar Pradesh during next 72 hours.
- **Under their influence:**
 - Fairly widespread/ widespread light/moderate rainfall with **heavy to very heavy rainfall & thunderstorm/lightning very likely over Uttarakhand & Uttar Pradesh during 15th-17th and over West Madhya Pradesh on 15th September, 2022. Isolated heavy to very heavy rainfall with extremely heavy falls also likely over Uttarakhand & West Uttar Pradesh on 17th September, 2022. Isolated heavy falls** likely over East Madhya Pradesh on 15th September, 2022
 - Fairly widespread/ widespread light/moderate rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over south Haryana & East Rajasthan on 15th September, 2022.
 - Fairly widespread/ widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Saurashtra & Kutch on 15th; Bihar, Sub- Himalayan West Bengal & Sikkim and Gujarat Region on 15th & 16th; Odisha on 18th & 19th and over ghat areas of Madhya Maharashtra and Konkan & Goa during 15th-17th September, 2022. **Isolated very heavy rainfall also likely over Gujarat State on 15th and over ghat areas of Madhya Maharashtra and Konkan & Goa on 15th & 16th September, 2022.**
 - Fairly widespread/ widespread light/moderate rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 15th & 16th September, 2022.
 - Subdued rainfall activity likely over South Peninsular India during next 5 days.

For more details kindly refer: https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php

Extremely heavy rainfall occurred at isolated places over Madhya Pradesh and East Uttar Pradesh; **heavy to very heavy rainfall** occurred at isolated places over East Rajasthan, West Uttar Pradesh, Gujarat Region and **heavy rainfall** at isolated places over Uttarakhand, Gangetic West Bengal, Bihar, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Meghalaya, Arunachal Pradesh, Tripura, Jharkhand, Coastal Andhra Pradesh & Yanam and Coastal Karnataka.

Rainfall (in cm):

- ❖ **East Madhya Pradesh:** Orchha (dist Niwari) 25, Lidhora (dist Tikamgarh) 18, Mohangarh (dist Tikamgarh) 16, Birsa (dist Balaghat) 10, Prithvipur (dist Niwari) 9, Katangi (dist Balaghat) 9, Sihora (dist Jabalpur) 9, Niwari (dist Niwari) 9, Waraseoni (dist Balaghat) 8, Malanjkhanda (dist Balaghat) 8, Panagar (dist Jabalpur) 8, Amarkantak (dist Anuppur) 7, Jabalpur-aws (dist Jabalpur) 7, Baihar (dist Balaghat) 7;
- ❖ **East Uttar Pradesh:** Jaunpur-23, Gorakhpur-20, Deoria-15, Basti-13, Siddharth Nagar, Pratapgarh & Maharajganj-12 each, Azamgarh & Ambedkarnagar-11, Barabanki, Balarampur & Ayodhya-10 each, Gonda-7;
- ❖ **West Madhya Pradesh:** Isagarh (dist Ashoknagar) 23, Chanderi (dist Ashoknagar) 19, Badarwas (dist Shivpuri) 15, Shivpuri (dist Shivpuri) 14, Pichhore (dist Shivpuri) 13, Karhal (dist Sheopur) 12, Ashoknagar-aws (dist Ashoknagar) 12, Kolaras (dist Shivpuri) 10, Aron (dist Guna) 10, Khaniyadana (dist Shivpuri) 10, Bamori (dist Guna) 9, Guna-aws (dist Guna) 8, Mungaoli (dist Ashoknagar) 7, Dabra (dist Gwalior) 7, Dahi (dist Dhar) 7;
- ❖ **Gujarat Region:** Khedbrahma (dist Sabarkantha) 15, Daman Fmo (dist Daman) 14, Daman (dist Daman) 13, Daman_arg (dist Daman) 10, Bayad_arg (dist Aravalli) 9, Navsari (dist Navsari) 8, Modasa (dist Aravalli) 8, Madhbun (dist Dadara & Nagar Haveli) 7, Valsad_Kvk Aws (dist Valsad) 7, Mahuva (dist Surat) 7, Vapi (dist Valsad) 7, Vijaynagar (dist Sabarkantha) 7, Pardi (dist Valsad) 7;
- ❖ **West Uttar Pradesh:** Lalitpur-12, Jhansi-11, Jalaun-7;
- ❖ **East Rajasthan:** Baran-13, Dungarpur-9;
- ❖ **Konkan & Goa:** Kalyan (dist Thane) 11, Matheran (dist Raigad) 9, Ambernath (dist Thane) 7, Murbad (dist Thane) 7, Sawantwadi (dist Sindhudurg) 7, Shahapur (dist Thane) 7;
- ❖ **Gangetic West Bengal:** Nalhati-11, Rampurhat CWC & Rampurhat PTO-7 each;
- ❖ **Meghalaya:** Sohra-11, Mawsynram-10, Williamnagar-9;
- ❖ **Arunachal Pradesh:** Tuting-11;
- ❖ **Saurashtra & Kutch:** Sayla (dist Surendranagar) 10, Naliya (dist Kutch) 9, Gadhdha (dist Botad) 8, Babra (dist Amreli) 7, Rapar (dist Kutch) 7;
- ❖ **Bihar:** Purnea-10, Kathiyar-8;
- ❖ **Madhya Maharashtra:** Igatpuri (dist Nashik) 9;
- ❖ **Tripura:** Lembucherra & Jirania -8 each;
- ❖ **Coastal Andhra Pradesh & Yanam:** Sullurpeta (dist Spsr Nellore) 8;
- ❖ **Coastal Karnataka:** Brahmavar Aws (dist Udipi) 8;
- ❖ **Uttarakhand:** Tehri-7;
- ❖ **Jharkhand:** Dumka-7.
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IMPACT EXPECTED & ACTION SUGGESTED DUE TO-

- i) Isolated **extremely heavy rainfall** over Uttarakhand & West Uttar Pradesh on 17th September, 2022.
- ii) Isolated **very heavy rainfall** over Gujarat State & West Madhya Pradesh on 15th; Uttarakhand & Uttar Pradesh during 15th-17th and over ghat areas of Madhya Maharashtra and Konkan & Goa on 15th & 16th 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)



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