



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

**Press Release
Date: 14th September, 2022
Time of Issue: 1315 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)

- The **Well Marked Low Pressure Area** over northwest Madhya Pradesh persists. It is likely to move slowly north-northwestwards during next 24 hours and gradually recurve northeastwards across south Uttar Pradesh. It is very likely to interact with a trough in mid-latitude westerlies during 15th to 17th September leading to enhanced rainfall activity over Uttarakhand, Uttar Pradesh and adjoining Madhya Pradesh during 15th to 17th September, 2022. There is a possibility of intensification of Well Marked Low Pressure Area into a Depression over southwest Uttar Pradesh around 16th September, 2022.

Under its influence:

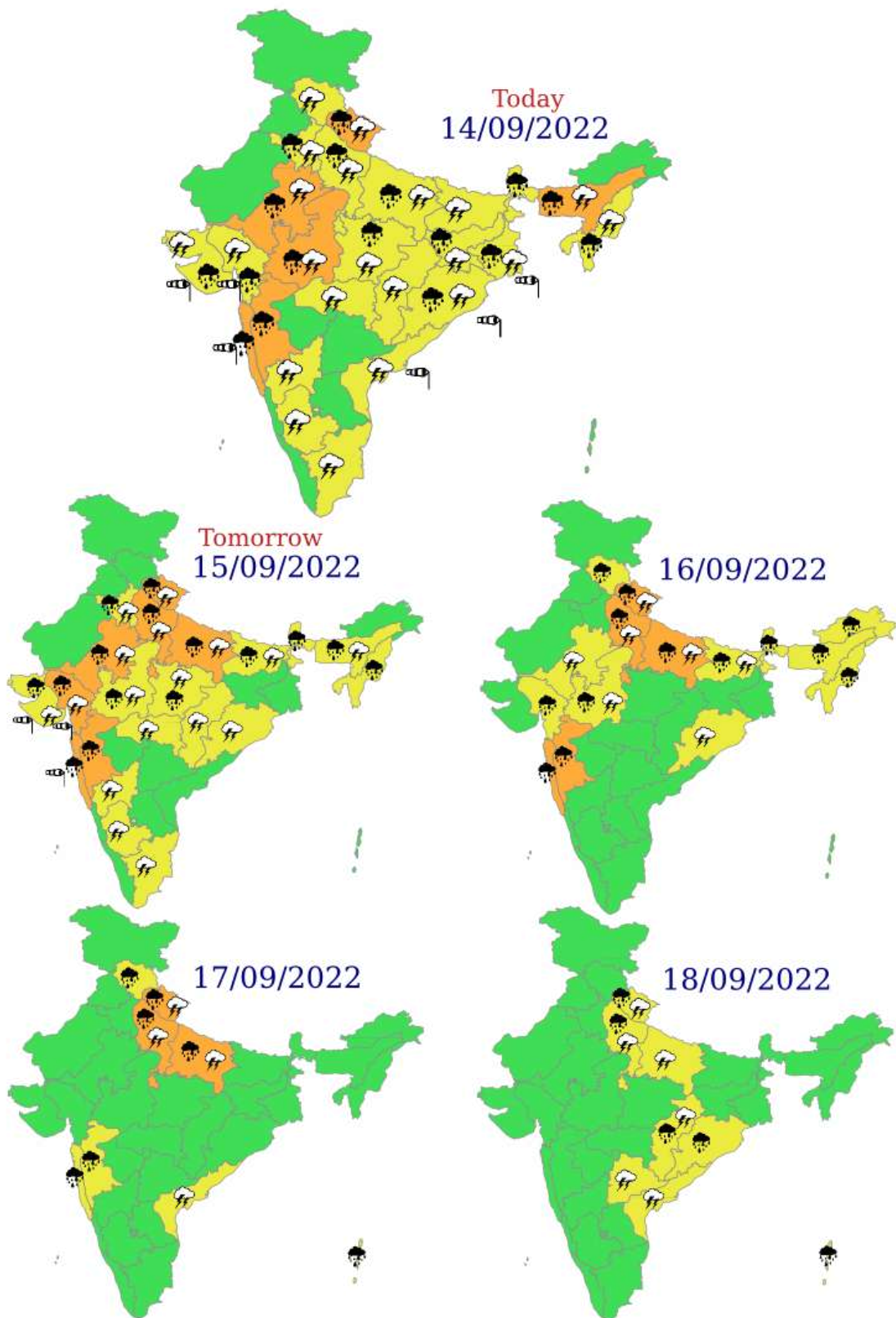
- Fairly widespread/ widespread light/moderate rainfall with **heavy to very heavy rainfall & thunderstorm/lightning very likely over Uttarakhand & Uttar Pradesh during 14th-16th and over West Madhya Pradesh on 14th September, 2022. Isolated heavy to very heavy rainfall with extremely heavy falls also likely over Uttarakhand & Uttar Pradesh on 17th September, 2022. Isolated heavy falls** likely over northeast Madhya Pradesh on 14th & 15th; northwest Madhya Pradesh on 15th & 16th and over Uttarakhand & West Uttar Pradesh on 18th; September, 2022
- Fairly widespread/ widespread light/moderate rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over Haryana & East Rajasthan on 14th & 15th; Himachal Pradesh on 16th & 17th September, 2022. **Isolated very heavy rainfall also likely over East Rajasthan on 14th & 15th September, 2022.**
- Fairly widespread/ widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Jharkhand & Gangetic West Bengal on 14th; Saurashtra & Kutch on 14th & 15th; Bihar on 15th & 16th; Sub- Himalayan West Bengal & Sikkim, Gujarat Region during 14th-16th; Odisha on 14th & 18th; Chhattisgarh on 18th and over ghat areas of Madhya Maharashtra and Konkan & Goa during 14th-17th September, 2022. **Isolated very heavy rainfall also likely over Gujarat Region on 15th and over ghat areas of Madhya Maharashtra and Konkan & Goa during 14th-16th September, 2022.**
- Fairly widespread/ widespread light/moderate rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over Arunachal Pradesh on 16th and over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 14th-16th September, 2022. **Isolated very heavy rainfall also likely over Assam & Meghalaya on 14th 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

Heavy to very heavy rainfall occurred at isolated places over East Uttar Pradesh, West Madhya Pradesh, Chhattisgarh, Madhya Maharashtra and **heavy rainfall** at isolated places over East Rajasthan, East Madhya Pradesh, Odisha, Sub-Himalayan West Bengal, Gujarat State, Vidarbha, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Jharkhand and South Interior Karnataka.

Rainfall (in cm):

- ❖ **Madhya Maharashtra:** Nandurbar (dist Nandurbar) 15, Mahabaleshwar- Imd Obsy (dist Satara) 10, Lonavala_agri (dist Pune) 9, Taloda (dist Nandurbar) 8;
- ❖ **Chhattisgarh:** Kusmi (dist Balrampur) 12, Jashpurnagar (dist Jashpur) 9, Premnagar (dist Surajpur) 8, Manora (dist Jashpur) 7;
- ❖ **West Madhya Pradesh:** Badwani (dist Barwani) 12, Budhni (dist Sehore) 11, Raoti (dist Ratlam) 11, Badi (dist Raisen) 9, Begumganj (dist Raisen) 9, Narmadapuram (dist Narmadapuram) 8, Nagda (dist Ujjain) 8, Pachmarhi (dist Narmadapuram) 7, Satwas (dist Dewas) 7, Sailana (dist Ratlam) 7, Udaipura (dist Raisen) 7, Udainagar (dist Dewas) 7, Raisen-aws (dist Raisen) 7;
- ❖ **East Uttar Pradesh:** Deoria-12, Barabanki-11, Ayodhya & Chitrakoot-9 each;
- ❖ **Saurashtra & Kutch:** Sutrapada (dist Gir Somnath) 11, Naliya (dist Kutch) 7, Diu (dist Diu) 7;
- ❖ **Gujarat Region:** Hansot (dist Bharuch) 10, Netrang (dist Bharuch) 8;
- ❖ **Jharkhand:** Dhanbad & Koderma-10 each, Hazaraibag & Ramgarh-10 each, Sahibganj-9,
- ❖ **Konkan & Goa:** Rajapur (dist Ratnagiri) 9, Mangaon (dist Raigad) 8, Tala (dist Raigad) 8, Roha (dist Raigad) 8;
- ❖ **East Madhya Pradesh:** Batiyagarh (dist Damoh) 9, Lalburra (dist Balaghat) 9, Bajag (dist Dindori) 9, Amarkantak (dist Anuppur) 8, Umreth (dist Chindwara) 8, Junnardeo (dist Chindwara) 8, Karanjia (dist Dindori) 7, Garhakota (dist Sagar) 7, Venkatnagar (dist Anuppur) 7, Sagar-aws (dist Sagar) 7, Chhapara (dist Seoni) 7;
- ❖ **Sub-Himalayan West Bengal:** Malda & Bagrakote-9 each;
- ❖ **East Rajasthan:** Bhungra (Banswara) 8;
- ❖ **Odisha:** Jagatsinghpur-8;
- ❖ **South Interior Karnataka:** Kottigehara (dist Chikkamagaluru) 8;
- ❖ **Vidarbha:** Bhandara (dist Bhandara) 7.



IMPACT EXPECTED & ACTION SUGGESTED DUE TO-

- i) Isolated **extremely heavy rainfall** over Uttarakhand & Uttar Pradesh on 17th September, 2022.
- ii) Isolated **very heavy rainfall** over Uttar Pradesh & Uttarakhand during 14th-17th; northwest Madhya Pradesh on 14th; northeast Rajasthan on 14th & 15th; Gujarat Region on 15th; ghat areas of Madhya Maharashtra and Konkan & Goa during 14th-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)



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