



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

**Press Release**  
**Date: 19<sup>th</sup> July, 2022**  
**Time of Issue: 1220 hrs IST**

**Subject: Enhanced rainfall activity over Northwest India, Northeastern States and Sub-Himalayan West Bengal during next 3-4 days.**

**Weather observed during past 24 hours ending at 0830 hrs IST of today:**

- **Heavy to very heavy rainfall** occurred at isolated places over West Madhya Pradesh, East Rajasthan, Uttarakhand, Gujarat Region, Assam & Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal and **heavy rainfall** at isolated places over Konkan & Goa, Madhya Maharashtra, Vidarbha and Tamil Nadu. (**Annexure I**).

**Rainfall/thunderstorm Forecast & Warnings: (Multi-hazard warning is given in Annexure II)**

- Yesterday's Low Pressure Area over central parts of Madhya Pradesh has become less marked but the associated cyclonic circulation now lies over West Madhya Pradesh in lower tropospheric levels.
- The monsoon trough is very likely to continue to shift further northwards towards its normal position during next 2-3 days.
- An east-west shear zone runs across north Peninsular India in middle tropospheric levels.
- An off-shore trough runs from south Gujarat coast to Karnataka coast.
- **Under the influence of above systems;**
  - Fairly widespread to widespread light/moderate rainfall with **isolated heavy falls** and **thunderstorm/lightning** very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Rajasthan & Uttar Pradesh during 19<sup>th</sup>-23<sup>rd</sup> July, 2022.
    - ✓ **Isolated very heavy rainfall very likely over East Rajasthan on 19<sup>th</sup>; Himachal Pradesh & Haryana- Chandigarh on 20<sup>th</sup>; Punjab & Uttar Pradesh on 20<sup>th</sup> & 21<sup>st</sup> and over Uttarakhand during 21<sup>st</sup>-23<sup>rd</sup> July, 2022.**
    - ✓ **Isolated/scattered extremely heavy falls also likely over Uttarakhand on 19<sup>th</sup> & 20<sup>th</sup> July, 2022.**
  - Fairly widespread/Widespread light/moderate rainfall with **heavy falls** very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 5 days.
    - ✓ **Isolated very heavy falls also likely over Sub-Himalayan West Bengal & Sikkim on 20<sup>th</sup>; over Arunachal Pradesh and Assam & Meghalaya during 19<sup>th</sup>-21<sup>st</sup> July, 2022.**
  - Fairly widespread/widespread light/moderate rainfall & **thunderstorm/lightning** very likely over Chhattisgarh, Vidarbha, Madhya Pradesh, Konkan & Goa, Kerala & Mahe, Coastal Karnataka and Lakshadweep during next 5 days.

- ✓ **Isolated heavy rainfall** very likely over Coastal Karnataka & Konkan & Goa on 19<sup>th</sup>; Kerala & Mahe during 19<sup>th</sup>-21<sup>st</sup>; West Madhya Pradesh during 20<sup>th</sup>-23<sup>rd</sup>; East Madhya Pradesh on 20<sup>th</sup> & 23<sup>rd</sup>; Vidarbha & Chhattisgarh during 21<sup>st</sup>-23<sup>rd</sup> July, 2022.
- ✓ **Isolated very heavy rainfall also likely over West Madhya Pradesh on 19<sup>th</sup> and over East Madhya Pradesh on 21<sup>st</sup> & 22<sup>nd</sup> July, 2022.**
- Scattered to fairly widespread rainfall very likely over Odisha, Bihar, Jharkhand, Gujarat State, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Interior Karnataka, Coastal Andhra Pradesh & Yanam and Telangana during next 5 days.
  - ✓ **Isolated heavy rainfall** very likely over Jharkhand, Madhya Maharashtra & South Interior Karnataka on 19<sup>th</sup>; Bihar on 20<sup>th</sup> & 21<sup>st</sup>; Odisha on 21<sup>st</sup> & 22<sup>nd</sup>; Tamil Nadu during 19<sup>th</sup>-21<sup>st</sup>; Gujarat State on 23<sup>rd</sup> and over Telangana on 22<sup>nd</sup> & 23<sup>rd</sup> July, 2022.
  - ✓ **Isolated very heavy rainfall also likely over Gujarat Region on 19<sup>th</sup> and over Odisha on 23<sup>rd</sup> July, 2022.**

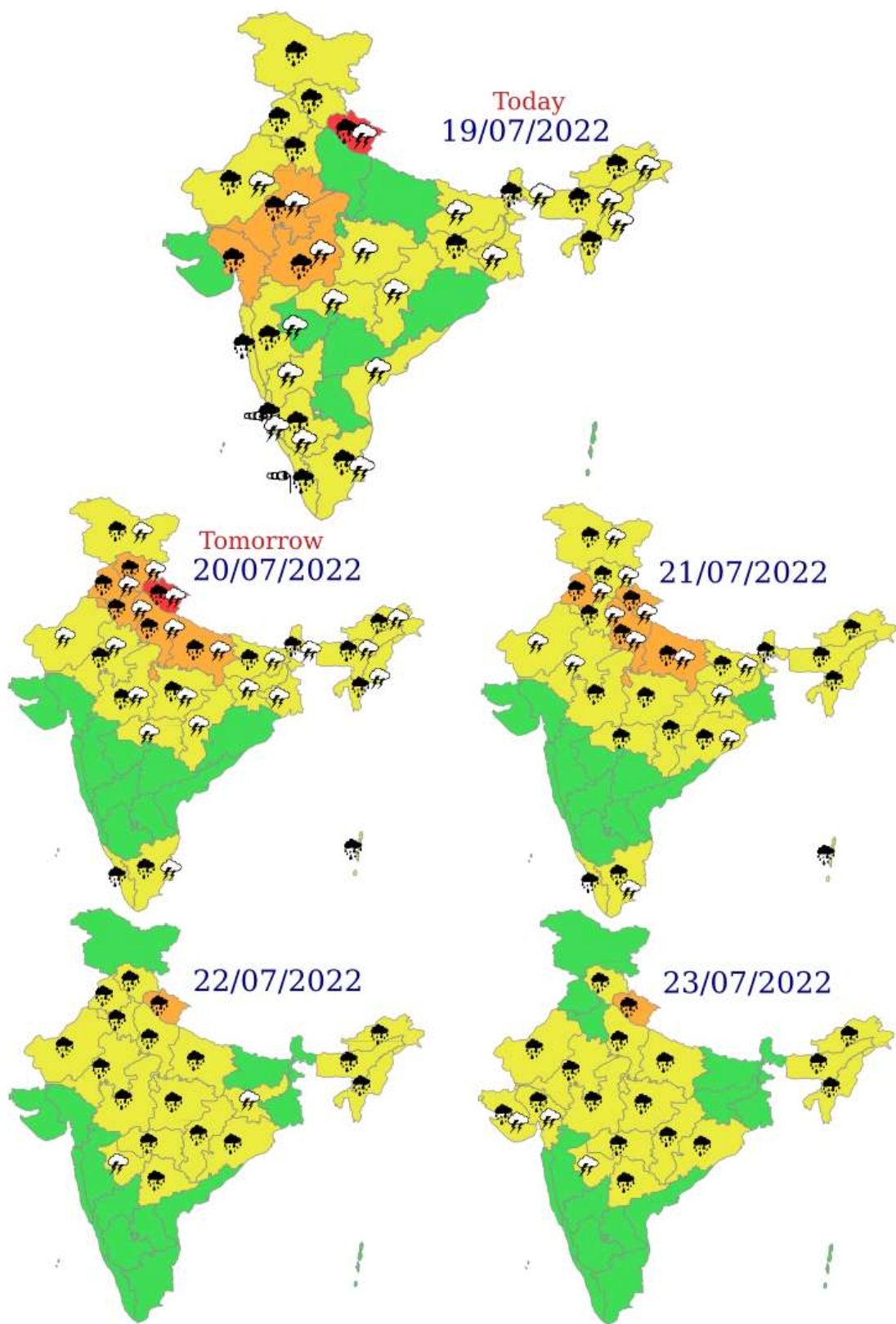
For more details kindly refer:

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

## Annexure I

### Rainfall (in cm):

- ❖ **East Rajasthan:** Banswara: Bhungra SR-20, BAGIDORA SR-18, CHITTORGARH: NIMBAHERA-15, Jhalawar: Dug-12, Bundi: Talera SR-8, Dungarpur: Galiyakot Sr-8, Kota: Mandana Sr-7;
- ❖ **West Madhya Pradesh:** Garoth (dist Mandsaur) 20, Moman Badodiya (dist Shajapur) 19, Jawad (dist Neemuch) 15, Jhirnya (dist Khargone) 14, Susner (dist Agar-malwa) 13, Nagda (dist Ujjain) 13, Bhanpura (dist Mandsaur) 11, Manasa (dist Neemuch) 11, Sanawad (dist Khargone) 10, Nalkheda (dist Agar- malwa) 10, Agar (dist Agar-malwa) 10, Mahidpur (dist Ujjain) 10, Ghatiya (dist Ujjain) 9, Mhow (dist Indore) 9, Rehti (dist Sehore) 9;
- ❖ **Arunachal Pradesh:** Dibang Valley-17, Pashighat-14, Changlang-10,
- ❖ **Assam & Meghalaya:** Tinsukia-17, Dhemaji-15, Kokrajhar-14, Shillong-12, Mawsynram-8;
- ❖ **Uttarakhand:** Bageshwar: Sama-15, Pithoragarh: Dharchula-15, Nainital: Haldwani-12,
- ❖ **Gujarat Region:** Bodeli (dist Chhota Udepur) 13, Nanipalson (dist Valsad) 10, Madhbun (dist Dadara & Nagar Haveli) 10, Waghodia (dist Vadodara) 9, Vadodara (dist Vadodara) 9, Kukarmunda (dist Tapi) 9, Sankheda (dist Chhota Udepur) 8, Tilakwada (dist Narmada) 8, Padra (dist Vadodara) 7;
- ❖ **Sub-Himalayan West Bengal:** Cooch behar: Mekhliganj ARG-12, MATHABHANGA-9, Pundibari-7;
- ❖ **Madhya Maharashtra:** Peth (dist Nashik) 10, Yaval (dist Jalgaon) 8, Lonavala\_agri (dist Pune) 7, Igatpuri (dist Nashik) 7;
- ❖ **Konkan & Goa:** Shahapur (dist Thane) 9, Karjat\_agri (dist Raigad) 9, Vikramgad (dist Palghar) 7, Matheran (dist Raigad) 7;
- ❖ **Tamil Nadu:** The Nilgiris: Taluk Office Pandalur & Naduvattam -9 each, Glenmorgan-7;
- ❖ **Vidarbha:** Chikhaldra (dist Amraoti) 7;



## **EXPECTED IMPACT & ACTION SUGGESTED DUE TO-**

**Isolated extremely/very heavy rainfall over Uttarakhand during 19<sup>th</sup>-23<sup>rd</sup>; Arunachal Pradesh and Assam & Meghalaya during 19<sup>th</sup>-21<sup>st</sup>; south Rajasthan, Gujarat Region & West Madhya Pradesh on 19<sup>th</sup> July, 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

### 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



Thunderstorm with Lightning



Heat Wave