



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 20th July, 2022
Time of Issue: 1245 hrs IST

Subject: Enhanced rainfall activity over Northwest India, Northeastern States and Sub-Himalayan West Bengal during next 3 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, Himachal Pradesh, Uttarakhand, Assam & Meghalaya, Arunachal Pradesh and Tamil Nadu and **heavy rainfall** at isolated places over Punjab, Odisha, Sub-Himalayan West Bengal, East Madhya Pradesh, Jammu & Kashmir and Gujarat Region. (**Annexure I**).

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

- The monsoon trough at mean sea level is near its normal position. It is very likely to remain so during next 2-3 days and shift gradually southwards thereafter.
- A Western Disturbance as a cyclonic circulation lies over north Pakistan & neighbourhood at middle tropospheric levels.
- A cyclonic circulation lies over Jharkhand & adjoining Gangetic West Bengal in lower & middle tropospheric levels tilting southwards with height.
- A north-south trough runs from South Interior Karnataka to Comorin area in lower tropospheric levels .
- An east-west shear zone runs across north Peninsular India in middle tropospheric levels.
- An off-shore trough runs from Konkan coast to north Kerala 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 and East Rajasthan during 20th-24th and over Punjab, Haryana-Chandigarh and Uttar Pradesh during 20th-22nd and over West Rajasthan during 21st-24th July, 2022.
 - ✓ **Isolated very heavy rainfall very likely** over East Uttar Pradesh on 20th; Punjab, Haryana-Chandigarh, West Uttar Pradesh & Himachal Pradesh on 20th & 21st; Uttarakhand during 21st-23rd July, 2022.
 - ✓ **Isolated heavy rainfall likely over Delhi on 20th July, 2022.**
 - ✓ **Isolated extremely heavy falls also** likely over Uttarakhand on 20th July, 2022.
 - Fairly widespread/widespread light/moderate rainfall & **thunderstorm/lightning** very likely over Chhattisgarh, Vidarbha, Madhya Pradesh during next 5 days.
 - ✓ **Isolated heavy rainfall** very likely over Chhattisgarh during 21st-23rd; Vidarbha on 22nd & 23rd; West Madhya Pradesh on 21st & 22nd and over East Madhya Pradesh during 20th-24th July, 2022.
 - ✓ **Isolated very heavy rainfall also likely over West Madhya Pradesh on 20th July, 2022.**

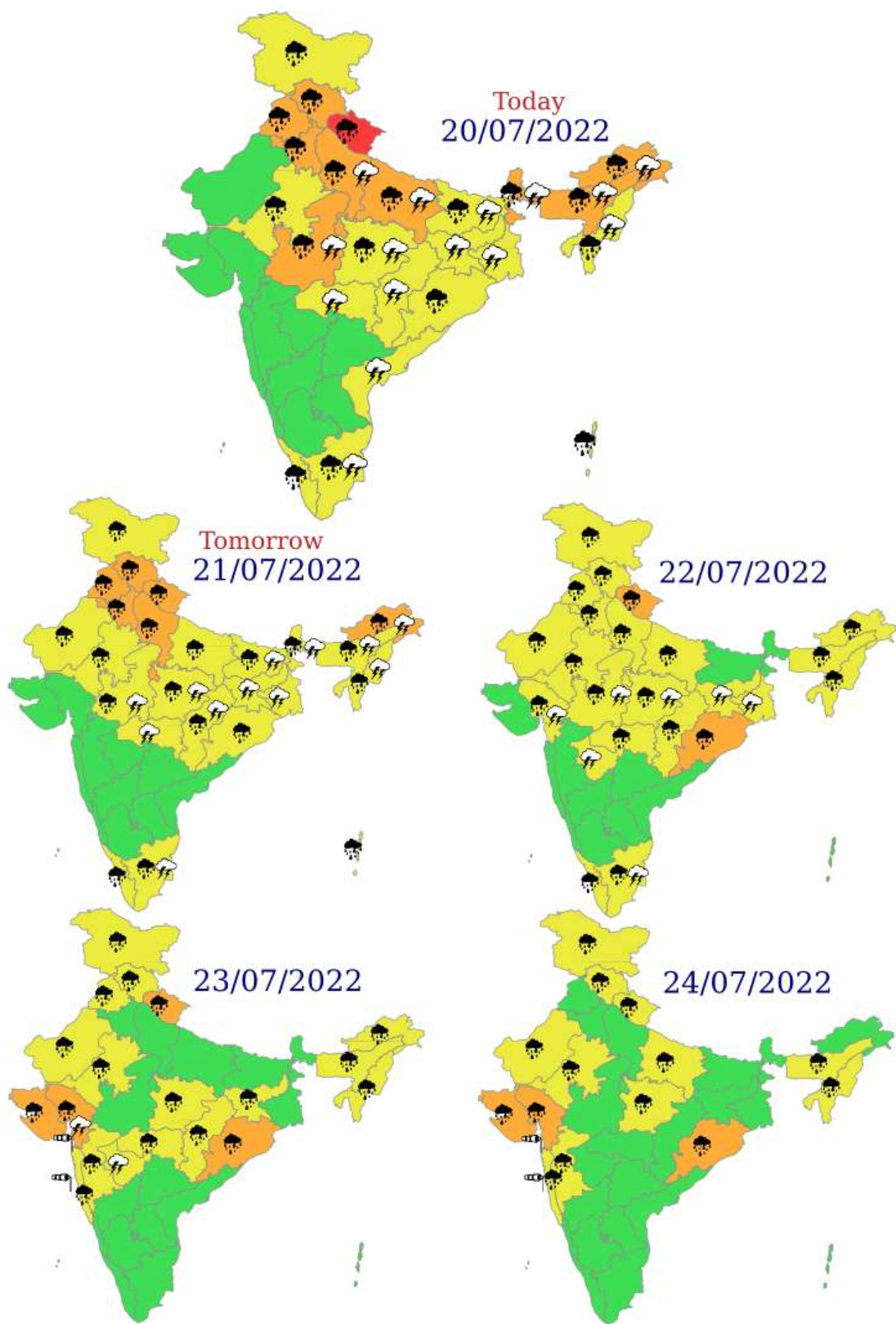
- Fairly widespread/ widespread rainfall very likely over Odisha, Bihar, Jharkhand and West Bengal & Sikkim during next 5 days.
 - ✓ **Isolated heavy rainfall** very likely over Odisha, Bihar and Sub-Himalayan West Bengal & Sikkim on 20th & 21st; Jharkhand on 23rd July, 2022.
 - ✓ **Isolated very heavy rainfall also likely over Sub-Himalayan West Bengal & Sikkim on 20th and over Odisha during 22nd-24th July, 2022.**
- Fairly widespread/widespread light/moderate rainfall with **heavy falls** very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 5 days.
 - ✓ **Isolated very heavy falls very likely over Assam & Meghalaya on 20th and over Arunachal Pradesh on 20th & 21st July, 2022.**
- Fairly widespread/ widespread rainfall with **isolated heavy falls**, thunderstorm & lightning very likely over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe during 20th-22nd and over Gujarat State, Konkan & Goa and ghat areas of Madhya Maharashtra on 23rd & 24th Odisha July, 2022.
 - ✓ **Isolated very heavy to extremely heavy falls very likely over Gujarat State on 23rd & 24th July 2022.**

For more details kindly refer:

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

Rainfall (in cm):

- ❖ **Uttarakhand:** Bageshwar: Sama-16, Pithoragarh: Didihat-11, Gharwal Pauri: Kotdwar-9, Dehradun: Jollygrant-8, Chamoli: Chamoli-7, Pithoragarh: Dharchula-15, Nainital: Haldwani-12;
- ❖ **Arunachal Pradesh:** Namsai: Namsai KVK-15, Lower Dibang Valley: Roing-13, Dambuk-8, Pashighat-14, Changlang-10,
- ❖ **East Rajasthan:** Sirohi: Mountabu Tehsil Sr-15, Ajmer: Pushkar-10, Udaipur: Kotda-9, Dungarpur: Dhambola-9;
- ❖ **West Madhya Pradesh:** Kukshi (dist Dhar) 14, Khandwa (dist Khandwa) 11, Nisarpur (dist Dhar) 7, Bagh (dist Dhar) 7;
- ❖ **Tamil Nadu:** Pudukottai: Kudimiyamalai-14, Karaiyur-9, Sivagangai: Thiruppuvanam-10;
- ❖ **Himachal Pradesh:** Kangra: Nagrota Surian-13, Hamirpur: Nadun-7;
- ❖ **Assam & Meghalaya:** East Khasi Hills: Sohra ARG-13, Shella-8, East Garo Hills: Williamnagar AWS-9, Tinsukia-10;
- ❖ **Sub-Himalayan West Bengal:** Alipurduar: Chepan-10, Barobhisha-8, Jalpaiguri: Ghish-9, Cooch behar: Pundibari-7;
- ❖ **Punjab:** Nawanshahr (dist Sbs Nagar) 9, Phangota (dist Pathankot) 8, Kapurthala (dist Kapurthala) 7, Athwal Irr (dist Gurdaspur) 7;
- ❖ **Jammu & Kashmir:** Udhampur: Udhampur(IAF)-9;
- ❖ **Odisha:** Kendrapada: Pattamundai-9, Jagatsinghpur: Balikuda & Tirtol-8 each, Puri: Puri-8,
- ❖ **Gujarat Region:** Kaprada (dist Valsad) 8, Matar (dist Kheda) 8, Vaso (dist Kheda) 7, Poshina (dist Sabarkantha) 7;
- ❖ **East Madhya Pradesh:** Mohkheda (dist Chindwara) 7;



EXPECTED IMPACT & ACTION SUGGESTED DUE TO-

i) Isolated extremely heavy rainfall over Uttarakhand on 20th July, 2022.

ii) Isolated very heavy rainfall over Assam & Meghalaya and East Uttar Pradesh on 20th; Arunachal Pradesh, Punjab, Haryana-Chandigarh, West Uttar Pradesh & Himachal Pradesh on 20th & 21st; Uttarakhand during 21st-23rd 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)



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

