



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 28th July, 2022
Time of Issue: 1300 hrs IST

Subject: Enhance rainfall activity over North India during next 3-4 days.

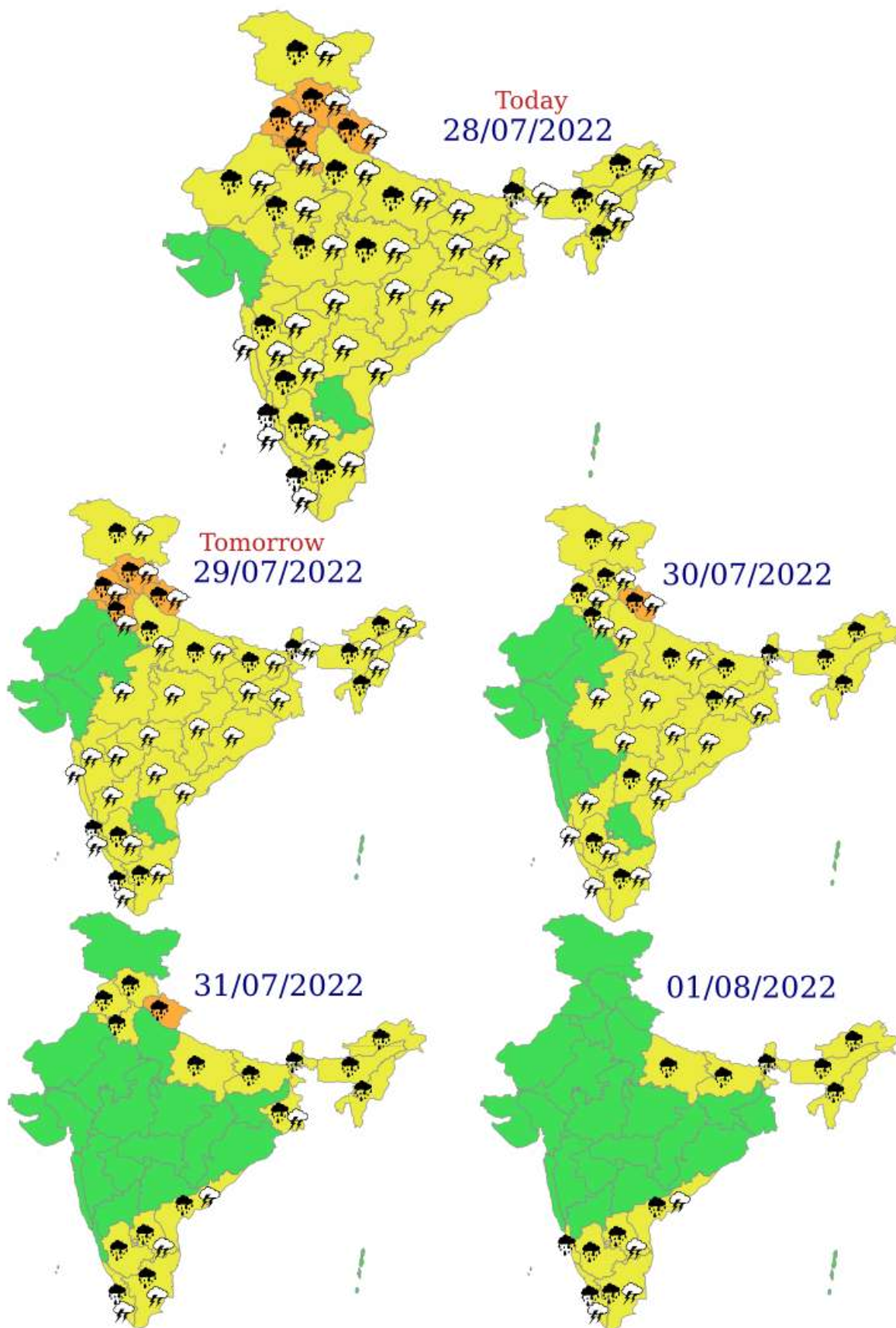
Weather observed during past 24 hours ending at 0830 hrs IST of today:

- **Heavy to very heavy rainfall** occurred at isolated places over Uttarakhand and **heavy rainfall** at isolated places over Jammu & Kashmir, Himachal Pradesh, Haryana, Rajasthan, East Uttar Pradesh, Madhya Pradesh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra, Gujarat Region, Rayalaseema, Karnataka, Tamil Nadu and Kerala. (**Annexure I**).
- **Weather systems, rainfall/thunderstorm Forecast & Warnings: (Warning Graphics in Annexure II)**
 - The western end of **monsoon trough** at mean sea level is near its normal position and eastern end is north of its normal position. The western end of monsoon trough is very likely to shift northwards during next 2-3 days.
 - A North-south trough runs from North Interior Karnataka to Comorin area across South Interior Karnataka and Interior Tamilnadu at lower tropospheric levels.
 - **Under the influence of above systems;**
 - Fairly widespread/widespread rainfall with **isolated heavy falls** and **thunderstorm/lightning** very likely over Jammu & Kashmir and West Uttar Pradesh during 28th-29th; Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh during 28th-31st July; over East Uttar Pradesh during 28th July – 01st August and over Rajasthan on 28th July, 2022.
 - ✓ **Isolated very heavy rainfall also very likely over Punjab, north Haryana-Chandigarh & Himachal Pradesh on 28th & 29th; Uttarakhand during 28th-31th July, 2022.**
 - Scattered to fairly widespread light/moderate rainfall with **thunderstorm & lightning** very likely to continue over Central, West, East and South India during next 3-4 days.
 - ✓ **Isolated heavy falls** very likely over north Madhya Pradesh and Madhya Maharashtra on 28th; Jharkhand on 30th; Bihar during 29th July – 01st August; Gangetic West Bengal on 31st; Rayalaseema during 30th July – 01st August, Coastal Andhra Pradesh during 31th July – 01st August, Coastal Karnataka on 28th-29th July & 01st August; over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka during 28th July – 01st August and over Kerala & Mahe on 28th, 29th, 31st July & 01st August 2022.
 - ✓ **Isolated very heavy rainfall also likely over Coastal & South Interior Karnataka on 28th and over Tamil Nadu, Puducherry & Karaikal on 31st July & 01st August 2022.**
 - Widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 5 days.
 - ✓ **Isolated very heavy rainfall** also very likely over Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh during 30th & 31st and over Assam & Meghalaya during 28th - 31st July, 2022.

For more details kindly refer: https://mausam.imd.gov.in/imd_latest/contents/all_india_forcast_bulletin.p

Rainfall (in cm):

- ❖ **Jammu & Kashmir:** Badgam: Arigaal-8, Srinagar-9; Poonch: Rajpura-8; Reasi-12; Srinagar: R.M Bagh-8,
- ❖ **Himachal Pradesh:** Kangra: Nurpur-11, Kangraaero-8, Palampur-7,
- ❖ **West Rajasthan:** Jodhpur-7,
- ❖ **East Uttar Pradesh:** Kheri: Dhaurahara-10; Kannauj-7,
- ❖ **Tamil Nadu:** Chittampatti (dist Madurai)-10; Kallandri (dist Madurai)-10; Gobichettipalayam (dist Erode)- 9; Sattur (dist Virudhunagar) -7; Thekkadi (dist Theni) -7,
- ❖ **Sub-Himalayan West Bengal & Sikkim:** Pundibari-12, Mathabhanga-10, Jalpaiguri-7.
- ❖ **Haryana:** Taoru (dist Nuh) 8,
- ❖ **Kerala & Mahe and Lakshadweep:** Neryamangalam ARG (Ernakulam district) 7,
- ❖ **Rayalaseema:** Amarapuram (dist Anantapuramu) 8,
- ❖ **Uttarakhand:** Chamoli: Karnaprayag-12; Pithoragarh: Didihat-7; Rudraprayag: Ganganagar-8,:
- ❖ **Assam & Meghalaya:** Dhemaji-Silapathar-8; East Garo Hills: Williamnagar-8, West Garo hills: Tura-7,
- ❖ **Gujarat Region:** Danta (dist Banaskantha) 8,
- ❖ **Coastal Karnataka:** Subramanya (dist Dakshina Kannada) 11, Dharmasthala (dist Dakshina Kannada) 9,
- ❖ **North Interior Karnataka:** Gadag Pbo Obsy (dist Gadag) 9,
- ❖ **South Interior Karnataka:** Ajjampura (dist Chikkamagaluru) 7,
- ❖ **East Madhya Pradesh:** Chindwara-aws (dist Chindwara) 8,
- ❖ **West Madhya Pradesh:** Mihona (dist Bhind) 9, Mehgaon (dist Bhind) 9, Gormi (dist Bhind) 7,
- ❖ **Madhya Maharashtra:** Yeola (dist Nashik) 7,



EXPECTED IMPACT & ACTION SUGGESTED DUE TO-

Isolated very heavy rainfall over Uttarakhand during 28th-31th July and over Punjab, Haryana-Chandigarh & Himachal Pradesh on 28th & 29th 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 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

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