



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

**Press Release  
Date: 29<sup>th</sup> July, 2022  
Time of Issue: 1230 hrs IST**

**Subject: Enhanced rainfall activity likely to continue over Northwest India during next 2 days.**

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

- **Heavy to very heavy rainfall** occurred at isolated places over Jammu & Kashmir, Uttarakhand, Haryana, Bihar and Sub-Himalayan West Bengal & Sikkim and **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Punjab, Himachal Pradesh, Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Jharkhand and Tamil Nadu. (**Annexure I**).

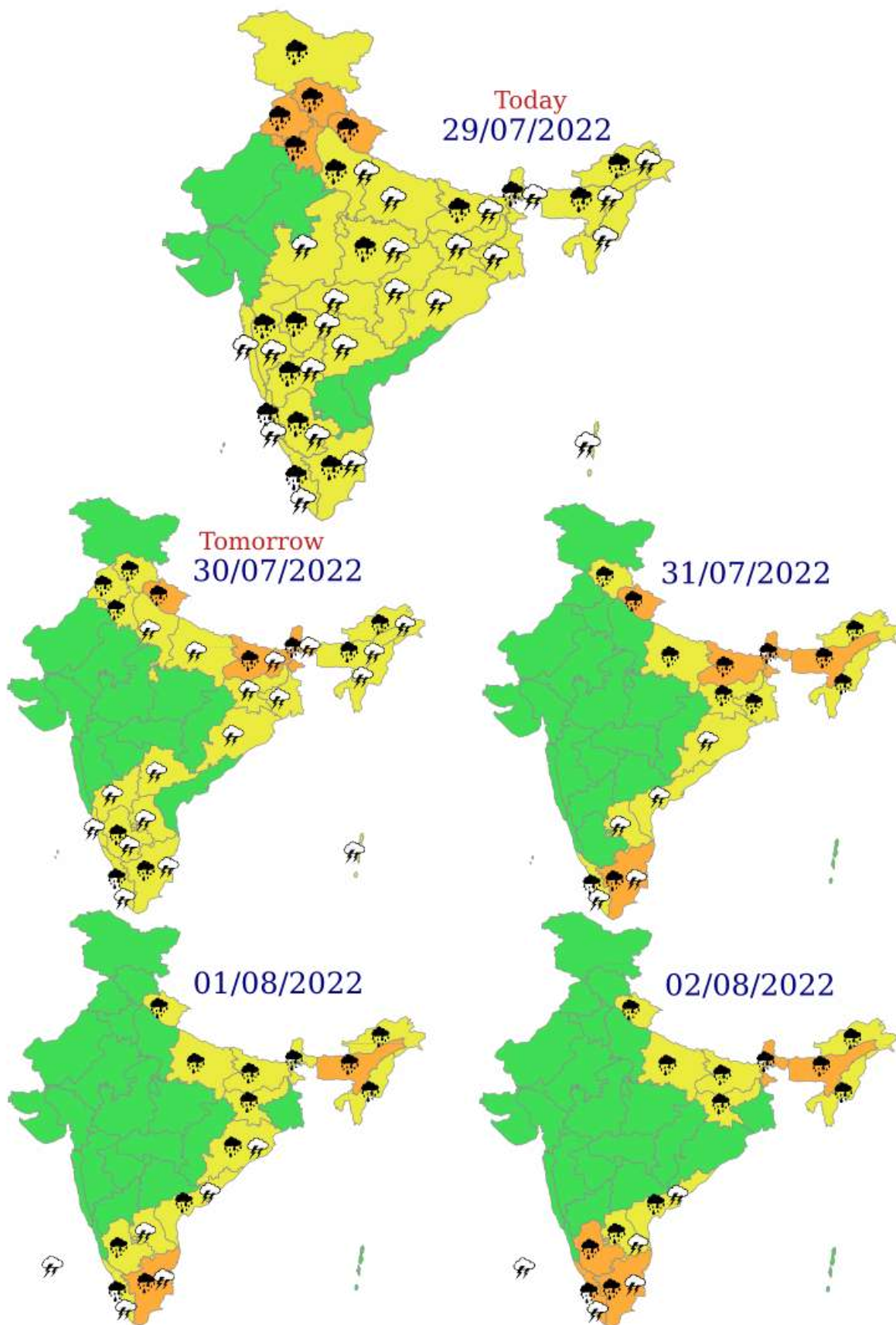
**Weather systems, rainfall/thunderstorm Forecast & Warnings: (Warning Graphics in Annexure II)**

- The **monsoon trough** at mean sea level is north of its normal position. It is likely to be north of its normal position during next 4-5 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 on 29<sup>th</sup>; during 28<sup>th</sup>-29<sup>th</sup>; Himachal Pradesh during 29<sup>th</sup>-31<sup>st</sup>; Uttarakhand during 29<sup>th</sup> July-02<sup>nd</sup> August; Punjab, Haryana on 29<sup>th</sup> & 30<sup>th</sup> July and over East Uttar Pradesh during 31<sup>st</sup> July-02<sup>nd</sup> August, 2022.
    - ✓ **Isolated very heavy rainfall also very likely over Punjab, north Haryana and Himachal Pradesh on 29<sup>th</sup>; Uttarakhand during 29<sup>th</sup>-31<sup>st</sup> 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 4-5 days.
    - ✓ **Isolated heavy falls** very likely over East Madhya Pradesh, Coastal & North Interior Karnataka, Marathwada and Madhya Maharashtra on 29<sup>th</sup>; Jharkhand during 31<sup>st</sup> July-02<sup>nd</sup> August; Bihar during 29<sup>th</sup> July – 02<sup>nd</sup> August; Gangetic West Bengal on 31<sup>st</sup>; Rayalaseema on 02<sup>nd</sup> August; Coastal Andhra Pradesh on 01<sup>st</sup> & 02<sup>nd</sup> August; South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 29<sup>th</sup> July – 02<sup>nd</sup> August, 2022.
    - ✓ **Isolated very heavy rainfall also likely over Bihar on 30<sup>th</sup> & 31<sup>st</sup>; South Interior Karnataka and Kerala & Mahe on 02<sup>nd</sup> August and over Tamil Nadu, Puducherry & Karaikal during 31<sup>st</sup> July-02<sup>nd</sup> 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 on 30<sup>th</sup> & 31<sup>st</sup> July & 02<sup>nd</sup> August and over Assam & Meghalaya during 31<sup>st</sup> July-02<sup>nd</sup> August, 2022.

For more details kindly refer: [https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forcast\\_bulletin.p](https://mausam.imd.gov.in/imd_latest/contents/all_india_forcast_bulletin.p)

**Rainfall (in cm):**

- ❖ **Uttarakhand:** Haldwani (dist Nainital) 19, Dharchula (dist Pithoragarh) 12, Sama (dist Bageshwar) 11, Loharkhet (dist Bageshwar) 9, Kapkot (dist Bageshwar) 7,
- ❖ **Haryana:** Karnal (dist Karnal) 19, Jakhal Mandi Hmo (dist Fatehabad) 11, Badli Rev (dist Jhajjar) 8, Dandh Rev (dist Kaithal) 7, Indri (dist Karnal) 7, Nagina Rev (dist Nuh) 7, Assandh (dist Karnal) 7,
- ❖ **Sub-Himalayan West Bengal & Sikkim:** Diana (dist Jalpaiguri) 18, Gajoldoba (dist Jalpaiguri) 13, Neora (dist Jalpaiguri) 13, Nagrakata (dist Jalpaiguri) 12, Buxaduar (dist Alipurduar) 9, Murti (dist Jalpaiguri) 9, Rongo (dist Kalimpong) 9, Bagdogra (dist Darjeeling) 8,
- ❖ **Jammu & Kashmir:** Samba (dist Samba) 15, Jammu (dist Jammu) 13, Chata Agro (dist Jammu) 12,
- ❖ **Punjab:** Ranjit Sagar Dam Site (dist Pathankot) 10, Phangota (dist Pathankot) 8, Madhopur (dist Pathankot) 8, Shahpur Kandi (dist Pathankot) 8, Raike Kalan Hmo (dist Bhatinda) 7, Barnala Aws (dist Barnala) 7,
- ❖ **East Madhya Pradesh:** Narayanganj (dist Mandla) 10, Tirodi (dist Balaghat) 7,
- ❖ **Tamil Nadu:** Thekkadi (dist Theni) 9,
- ❖ **Himachal Pradesh:** Kasauli (dist Solan) 8,
- ❖ **West Madhya Pradesh:** Bagli (dist Dewas) 7,
- ❖ **Madhya Maharashtra:** Madha (dist Sholapur) 7,
- ❖ **Marathawada:** Bhokar (dist Nanded) 7, Ambad (dist Jalna) 7,
- ❖ **Jharkhand:** Hazaribagh (dist Hazaribagh) 7.



## EXPECTED IMPACT & ACTION SUGGESTED DUE TO-

**Isolated very heavy rainfall** over Uttarakhand during 29<sup>th</sup>-31<sup>st</sup> July and over Punjab, Haryana & Himachal Pradesh on 29<sup>th</sup> July; Assam & Meghalaya during 31<sup>st</sup> July-02<sup>nd</sup> August; Sub-Himalayan West Bengal & Sikkim and Bihar on 30<sup>th</sup> & 31<sup>st</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.

<b>SPATIAL DISTRIBUTION</b> (% 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)



<b>WARNING</b>	
WARNING (TAKE ACTION)	
ALERT (BE PREPARED)	
WATCH (BE UPDATED)	
NO WARNING (NO ACTION)	

<b>Probabilistic Forecast</b>	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

