



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 01st August, 2022
Time of Issue: 1300 hrs IST

Subject: Extremely heavy rainfall spells over parts of South Peninsular India

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

- **Extremely heavy rainfall** occurred at isolated places over Sikkim, Tamil Nadu and Assam; **heavy to very heavy rainfall** occurred at isolated places over Punjab, West Rajasthan, Odisha, Sub-Himalayan West Bengal, Rayalaseema and Kerala and **heavy rainfall** at isolated places over Himachal Pradesh, West Uttar Pradesh, Uttarakhand, Bihar, Arunachal Pradesh, Telangana and South Interior Karnataka. (**Annexure I**).

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

- A shear zone runs roughly along 10°N over south peninsular India in middle tropospheric levels. It is likely to shift gradually northward during next 4-5 days.
- A north-south trough runs from south Chhattisgarh to Comorin area at lower tropospheric levels.
- The western end of monsoon trough at mean sea level lies north of its normal position and eastern end close to foothills of the Himalayas. It is very likely to be north of its normal position or along the foothills of Himalayas during next 3-4 days.

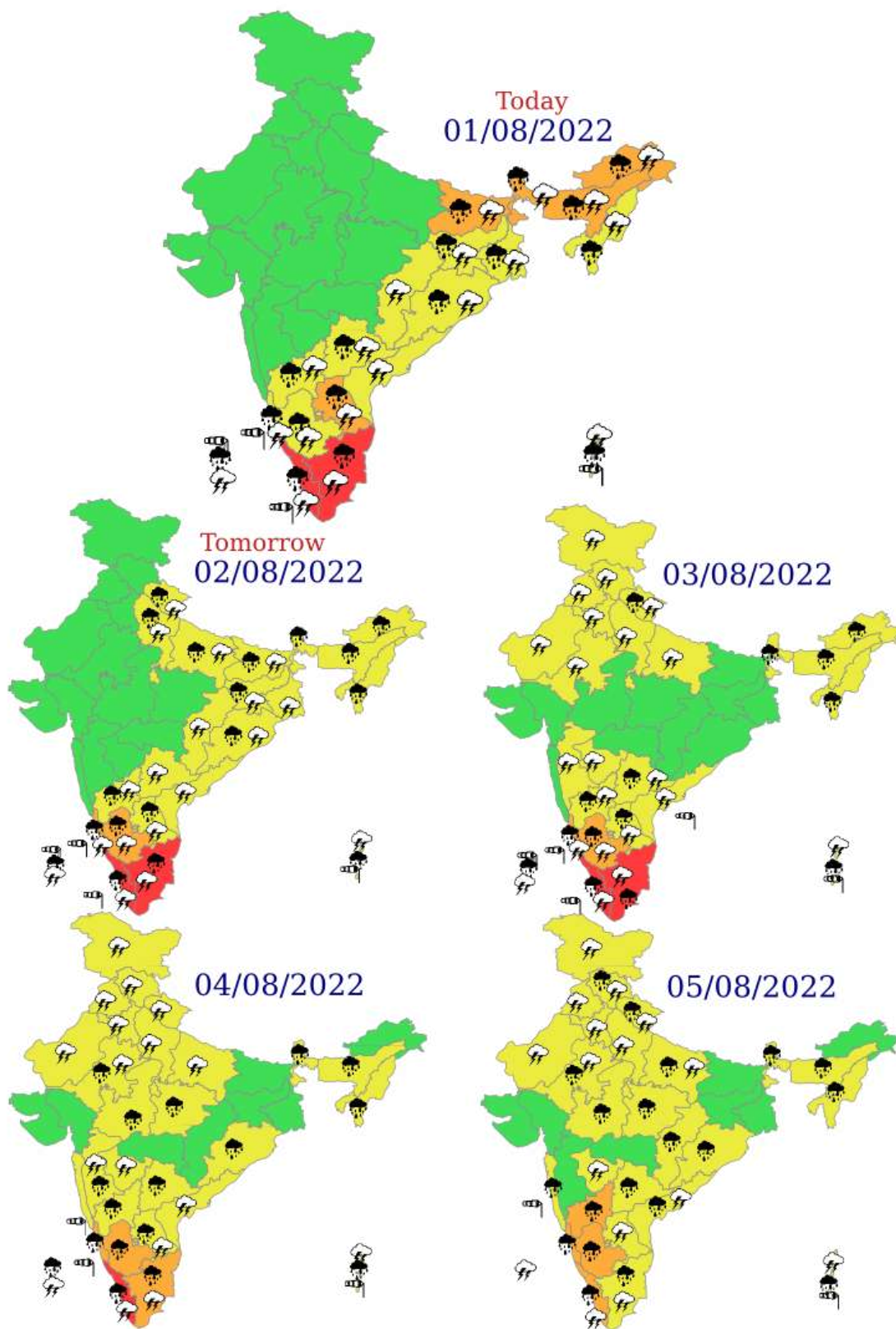
Under the influence of above system:

- Fairly widespread/widespread rainfall with **isolated heavy falls** and **thunderstorm/lightning** very likely over Telangana on 01st, 03rd, 04th & 05th; Rayalaseema and Lakshadweep during 01st-04th; south Coastal Andhra Pradesh & Yanam on 05th and over Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 01st-05th August, 2022.
 - ✓ **Isolated very heavy rainfall likely over Rayalaseema on 01st; Coastal & South Karnataka during 02nd- 05th; North Interior Karnataka on 05th and over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 01st-04th August, 2022.**
 - ✓ **Isolated extremely heavy rainfall also likely over Tamil Nadu, Puducherry & Karaikal during 01st-03rd; Kerala & Mahe during 01st-04th; South Interior Karnataka on 03rd & 04th; Coastal Karnataka on 04th & 05th August, 2022.**
- Fairly widespread/widespread rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Gangetic West Bengal on 01st; Bihar, Jharkhand & Odisha on 01st & 02nd; Arunachal Pradesh during 01st-03rd; Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 01st-05th August, 2022.
 - ✓ **Isolated very heavy rainfall also very likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya on 01st August, 2022.**

For more details kindly refer: https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php

Rainfall (in cm):

- ❖ **Assam & Meghalaya:** Barpeta-25, Panbari-19, Motunga-13, Baksa-12, Dhemaji-9, Sohra-8, Nalbari-7;
- ❖ **Sub-Himalayan West Bengal:** Kumargram:19; Hasimara : 16; Buxaduar : 15 Gazoledoba, Chepan : 13; Domohani : 12; Bagrakote, Murti, Barobhisha, Diana,Jhallong : 11; Alipurduar (P.T.O.) : 10; Jalpaiguri, Nh – 31(Road Bridge) ,Neora: 9; Nagrakata, Bagdogra : 9; Rongo : 7;
- ❖ **Punjab:** Shahpur Kandi (dist Pathankot) 18, Ranjit Sagar Dam Site (dist Pathankot) 10, Ludhiana (dist Ludhiana) 8, Madhopur (dist Pathankot) 6,
- ❖ **Sikkim:** Yuksom (ARG) : 21; Mangan (PTO) : 11; Singhik : 9;
- ❖ **Rayalaseema:** Amarapuram (dist Anantapuramu) 16, Kunurpi (dist Anantapuramu) 10, Penu Konda (dist Anantapuramu) 10, Pamidi (dist Anantapuramu) 9, Madakasira (dist Anantapuramu) 9, Atmakur (dist Anantapuramu) 9, Hindupur (dist Anantapuramu) 7, Kambadur (dist Anantapuramu) 7, Chinnamandem (dist Ysr District) 7;
- ❖ **Odisha:** Mayurbhanj: Kusumi-16,
- ❖ **Kerala:** Pathanamthitta-15, Idukki-9, Kollam-9, Kottiyam-8,
- ❖ **West Rajasthan:** Hanumangarh: Rawatsar-13, Sangaria-12, Pilibanga-8, Sri Ganganagar: Shrivijaynagar & Padampur-7 each;
- ❖ **South Interior Karnataka:** Y N Hoskote (dist Tumakuru) 11, Bhagamandala (dist Kodagu) 9, Napoklu (dist Kodagu) 8;
- ❖ **Tamil Nadu, Puducherry & Karaikal:** Madurai: Usilampatti-11, Kuppanampatti-10, Sivaganga: Tirupuvanam-12, Dindigul-8, Nilgiris: Naduvattam-8, Namakkal-7;
- ❖ **Bihar:** West Champaran: Chanpatia-10, Khagaria-8;
- ❖ **Arunachal Pradesh:** Bhalukpong-10, Tawanag-7;
- ❖ **Himachal Pradesh:** Mandi-9, Bilaspur-8, Hamirpur-7, Kangar-7;
- ❖ **West Uttar Pradesh:** Hapur-9;
- ❖ **Telangana:** Ramannapeta (dist Y. Bhuvanagiri) 7;
- ❖ **Uttarakhand:** Gharwal Tehri-7;



EXPECTED IMPACT & ACTION SUGGESTED DUE TO-

i) Isolated extremely heavy rainfall over Tamil Nadu, Puducherry & Karaikal during 01st-03rd; Kerala & Mahe during 01st-04th; South Interior Karnataka on 03rd & 04th; Coastal Karnataka on 04th & 05th August, 2022.

ii) Isolated very heavy rainfall over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Rayalaseema on 01st; Coastal & South Karnataka during 02nd-05th; North Interior Karnataka on 05th and over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 01st-04th August, 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

