



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 21st July, 2022
Time of Issue: 1300 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 East Rajasthan, Punjab, Haryana, Madhya Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal and Tamil Nadu and **heavy rainfall** at isolated places over Jammu & Kashmir, Himachal Pradesh, West Rajasthan, Uttar Pradesh, Jharkhand, Arunachal Pradesh, Madhya Maharashtra, Vidarbha, Andaman & Nicobar Islands, South Interior Karnataka, Coastal Andhra Pradesh, Telangana and Kerala & Mahe. (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 days and shift gradually southwards thereafter.
- A Western Disturbance as a cyclonic circulation lies over Himachal Pradesh & neighbourhood and another fresh Western Disturbance as a cyclonic circulation lies over east Afghanistan & neighbourhood at middle tropospheric levels.
- A cyclonic circulation lies over Jharkhand & neighbourhood 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.
- A cyclonic circulation lies over Haryana & neighbourhood in lower tropospheric levels.
- **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 during 21st-24th; Himachal Pradesh and Rajasthan during 21st-25th; Uttarakhand and Punjab during 21st-23rd; Haryana-Chandigarh and West Uttar Pradesh during 21st-22nd and over East Uttar Pradesh on 21st July, 2022.
 - ✓ **Isolated very heavy rainfall very likely over Rajasthan during 21st-23rd; Jammu & Kashmir on 21st & 22nd; Himachal Pradesh, Punjab and Haryana-Chandigarh on 21st 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 22nd-25th; Vidarbha during 23rd-25th and over Madhya Pradesh during 21st-25th July, 2022.

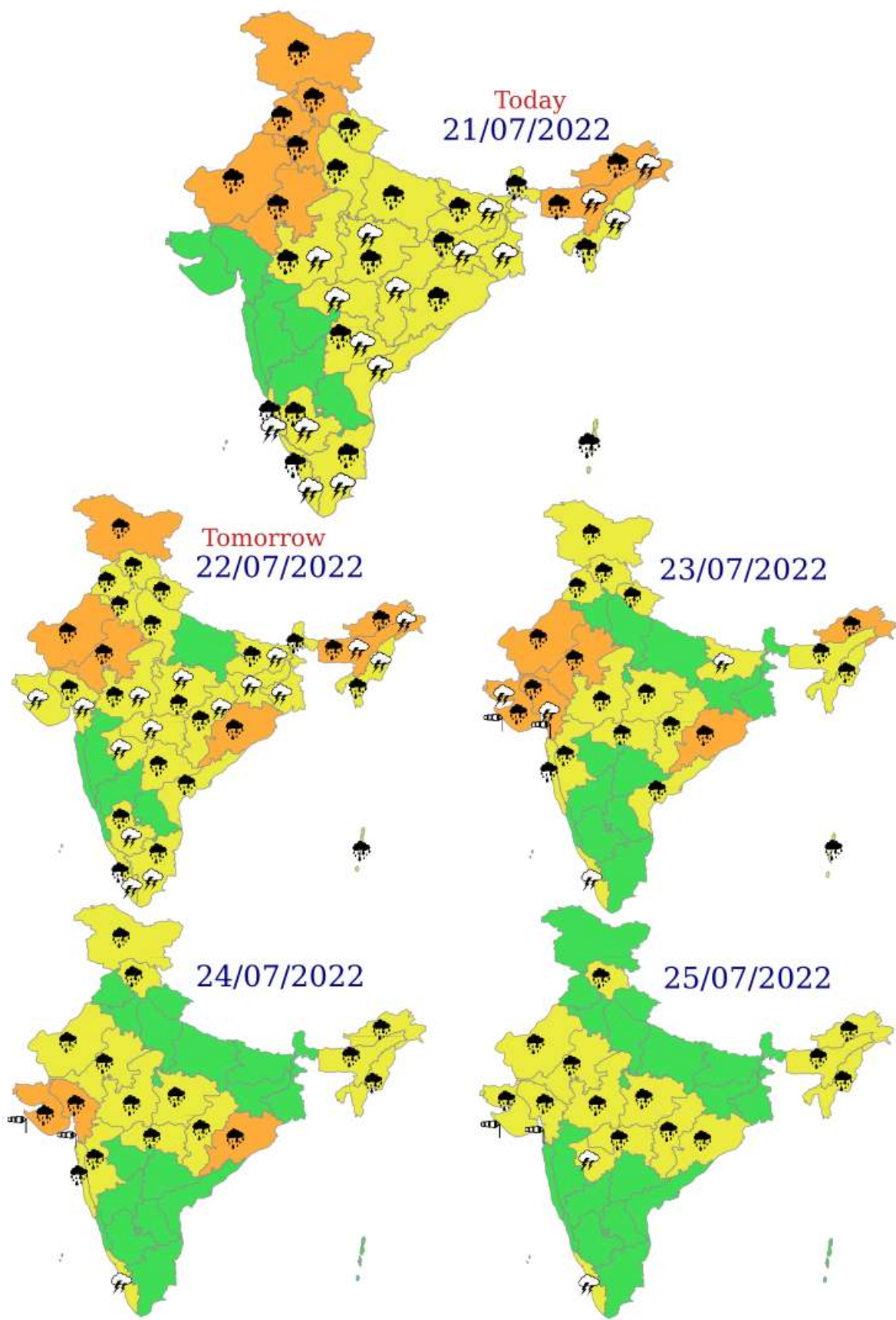
- Fairly widespread/ widespread rainfall very likely over Odisha, Bihar, Jharkhand and West Bengal & Sikkim during next 5 days.
 - ✓ **Isolated heavy rainfall** very likely over Odisha on 21st & 25th; Bihar and Sub-Himalayan West Bengal & Sikkim on 21st & 22nd and Jharkhand on 21st July, 2022.
 - ✓ **Isolated very heavy rainfall also likely 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 21st & 22nd and over Arunachal Pradesh during 21st-23rd July, 2022.**
- Fairly widespread/ widespread rainfall with **isolated heavy falls**, thunderstorm & lightning very likely over Coastal Karnataka on 21st; South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe during 21st-22nd and over Gujarat region on 22nd & 25th; Saurashtra & Kutch on 25th; Konkan & Goa and ghat areas of Madhya Maharashtra on 23rd & 24th July, 2022.
 - ✓ **Isolated very heavy falls very likely over Gujarat State on 23rd & 24th July, 2022. Isolated extremely heavy falls also likely over Saurashtra & Kutch on 24th July, 2022.**

For more details kindly refer:

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

Rainfall (in cm):

- ❖ **East Madhya Pradesh:** Badamalhera (dist Chhatarpur) 20, Orchha (dist Niwari) 15, Badagaon Dhasan (dist Tikamgarh) 13, Lidhora (dist Tikamgarh) 13, Birsingpur (dist Satna) 12, Tikamgarh-aws (dist Tikamgarh) 12, Hanumana (dist Rewa) 8, Garhakota (dist Sagar) 8, Jatara (dist Tikamgarh) 7, Malthone (dist Sagar) 7, Chitrangi (dist Singrauli) 7;
- ❖ **East Rajasthan:** Degod Sr (dist Kota) 16, Dausa (dist Dausa) 14, Malsisar Sr (dist Jhunjhunu) 9, Anta Sr (dist Baran) 9, Jhunjhunu (dist Jhunjhunu) 8, Nimarana (dist Alwar) 7, Dholpur Tehsil Sr (dist Dholpur) 7, Sawaimadhampur Tesil Sr (dist Sawai Madhopur) 7, Rupbas (dist Bharatpur) 7, Kishanganj (dist Baran) 7, Malakhera Sr (dist Alwar) 7, Chabra (dist Baran) 7;
- ❖ **West Madhya Pradesh:** Kolaras (dist Shivpuri) 16, Chanderi (dist Ashoknagar) 14, Bairad (dist Shivpuri) 9, Gormi (dist Bhind) 9, Sironj (dist Vidisha) 9, Mihona (dist Bhind) 9, Bhitwarwar (dist Gwalior) 8, Roan (dist Bhind) 8, Mungaoli (dist Ashoknagar) 8, Bhanpura (dist Mandsaur) 7, Isagarh (dist Ashoknagar) 7, Datia-aws (dist Datia) 7, Guna-aws (dist Guna) 7;
- ❖ **Punjab:** Kapurthala (dist Kapurthala) 16, Ludhiana Aws (dist Ludhiana) 13, Barnala Aws (dist Barnala) 13, Barnala (dist Barnala) 12, Nabha (dist Patiala) 11, Bul Irr (dist Ludhiana) 11, Jalandhar (dist Jalandhar) 11, Ludhiana Irr (dist Ludhiana) 11, Handiaya Hmo (dist Barnala) 10, Ludhiana (dist Ludhiana) 10, Patiala (dist Patiala) 10, Nakodar Arg (dist Jalandhar) 10, Nabha Arg (dist Patiala) 10, Athwal Irr (dist Gurdaspur) 10, Taran Taran (dist Tarn Taran) 10, Sunam (dist Sangrur) 10, Samana (dist Patiala) 9, Jalandhar Aws (dist Jalandhar) 9, Dasuya (dist Hoshiarpur) 9, Jagraon (dist Ludhiana) 9, Patiala Rev (dist Patiala) 7, Ferozepur (dist Ferozepur) 7, Sangrur (dist Sangrur) 7, Amritsar Hmo (dist Amritsar) 7, Phagwara (dist Kapurthala) 7, Mukerian (dist Hoshiarpur) 7, Amritsar (dist Amritsar) 7, Ferozepur Aws (dist Ferozepur) 7;
- ❖ **West Rajasthan:** Rajgarh (dist Churu) 7;
- ❖ **Tamil Nadu:** Kallandri (Dist Madurai) 12, Shoolagiri (Dist Krishnagiri) 7;
- ❖ **West Uttar Pradesh:** Maudaha (dist Hamirpur) 11, Etawah (dist Etawah) 8;
- ❖ **East Uttar Pradesh:** Mirzapur (dist Mirzapur) 11, Madiahan (dist Mirzapur) 8, Akbarpur (dist Ambedkar Nagar) 10, Kakerdarighat (dist Shrawasti) 9, Varanasi (dist Varanasi) 9, Deogaon Lalganj (dist Azamgarh) 8;
- ❖ **Telangana:** Kotapalle (Dist Mancherial) 10, Laxmanchanda (Dist Nirmal) 9, Nirmal (Dist Nirmal) 8, Navipet (Dist Nizamabad) 7, Mirdoddi (Dist Siddipet) 7;
- ❖ **Sub-Himalayan West Bengal:** Gajoldoba (dist Jalpaiguri) 14, Bagrakote (dist Darjeeling) 13, Nagarkata (dist Jalpaiguri) 13, Sevoke (dist Darjeeling) 12;
- ❖ **Haryana:** Bhiwani (dist Bhiwani) 12, Bhiwani Rev (dist Bhiwani) 12, Guhla (dist Kaithal) 12, Julana (dist Jind) 11, Jind (dist Jind) 10, Bhadra Rev (dist Charkhi Dadri) 8, Uchana (dist Jind) 8, Kaithal (dist Kaithal) 8, Paundri Rev (dist Kaithal) 8, Hansi Arg (dist Hisar) 7;
- ❖ **Delhi:** Palam-9;
- ❖ **Jammu & Kashmir:** Jammu (dist Jammu) 12, Chatha (dist Jammu) 11, Udampur (dist Udampur) 10, RS Pura (dist Jammu) 8, Katra (dist Reasi) 8, Burmal (dist Kathua) 7;
- ❖ **Vidarbha:** Arjuni Morgaon (dist Gondia) 7;
- ❖ **Coastal Andhra Pradesh:** Ranastalam (dist Srikakulam) 9, Tekkali (dist Srikakulam) 8;
- ❖ **Bihar:** Masrakh (dist Saran) 11, Pusa (dist Samastipur) 11, Vaishali (dist Vaishali) 11, Goraul (dist Vaishali) 9, Benibad (dist Darbhanga) 8;
- ❖ **Jharkhand:** Latehar (Dist Latehar) 11, Barkisuriya (Dist Giridih) 7;
- ❖ **Andaman & Nicobar Islands:** HUT BAY (dist south Andaman) 10;
- ❖ **Madhya Maharashtra:** Igatpuri (dist Nashik) 9;
- ❖ **South Interior Karnataka:** Bengaluru City Obsy (dist Bengaluru Urban) 8.



EXPECTED IMPACT & ACTION SUGGESTED DUE TO-

i) Isolated very heavy rainfall over Assam & Meghalaya, Jammu & Kashmir on 21st & 22nd; Arunachal Pradesh, Rajasthan during 21st-23rd; Odisha during 22nd-24th; Himachal Pradesh, Punjab, Haryana on 21st; Gujarat region on 23rd & 24th; Saurashtra & Kutch on 23rd July, 2022.

ii) Isolated extremely heavy rainfall over Saurashtra & Kutch on 24th 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