



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

**Press Release**  
**Date: 01<sup>st</sup> September, 2022**  
**Time of Issue: 1330 hrs IST**

**Subject: Heavy spell of rainfall likely over Tamil Nadu, Kerala & Mahe and South Interior Karnataka, Sub-Himalayan West Bengal-Sikkim and Northeast India during next 5 days.**

**Weather observed during past 24 hours ending at 0830 hrs IST of today: (Refer Annex. I)**

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

- The monsoon trough at mean sea level runs north to its normal position.
- A cyclonic circulation lies over Kutch in lower tropospheric levels.
- Another cyclonic circulation lies over north Tamil Nadu in lower tropospheric levels.
- A trough runs from south Sri Lanka coast to central Madhya Pradesh & another trough runs from Jammu to central Pakistan in lower tropospheric levels.
- **Under the influence of the above systems:**
  - Fairly widespread/widespread rainfall with **isolated heavy falls** and thunderstorm/lightning very likely over Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh and Assam & Meghalaya during next 5 days. **Isolated very heavy rainfall also likely over Arunachal Pradesh and Assam & Meghalaya on 02<sup>nd</sup> & 03<sup>rd</sup> September, 2022.**
  - Fairly widespread/widespread rainfall with **isolated heavy falls** & thunderstorm/lightning very likely over Madhya Pradesh on 01<sup>st</sup>; Bihar during 01<sup>st</sup>-03<sup>rd</sup>; Jharkhand on 03<sup>rd</sup> and over Sub-Himalayan West Bengal(SHWB) & Sikkim during next 5 days. **Isolated extremely heavy rainfall over SHWB & Sikkim on 01<sup>st</sup> & 02<sup>nd</sup>; very heavy rainfall also likely on 03<sup>rd</sup> & 04<sup>th</sup> September, 2022.**
  - Fairly widespread/widespread rainfall with **isolated heavy falls** and **thunderstorm/lightning** very likely over Coastal Karnataka on 01<sup>st</sup>, 04<sup>th</sup> & 05<sup>th</sup>; North Interior Karnataka on 01<sup>st</sup> & 05<sup>th</sup>; Lakshadweep on 01<sup>st</sup> & 02<sup>nd</sup>; Rayalaseema on 05<sup>th</sup> and over Tamil Nadu, Kerala & Mahe and South Interior Karnataka during next 5 days. **Isolated very heavy rainfall also likely over Tamil Nadu & South Interior Karnataka on 01<sup>st</sup> and over Kerala & Mahe and Lakshadweep on 01<sup>st</sup> & 02<sup>nd</sup> September, 2022.**
  - Isolated/scattered rainfall over Western Himalayan Region & Uttar Pradesh during next 3 days and fairly widespread/widespread rainfall during subsequent 2 days with **isolated heavy falls** and **thunderstorm/lightning** very likely over Jammu & Kashmir on 04<sup>th</sup>; Himachal Pradesh on 04<sup>th</sup> & 05<sup>th</sup>; Uttarakhand on 01<sup>st</sup>, 03<sup>rd</sup>, 04<sup>th</sup> & 05<sup>th</sup> and over northwest & East Uttar Pradesh on 01<sup>st</sup> September, 2022. **Isolated very heavy rainfall also likely over Uttarakhand on 04<sup>th</sup> September, 2022.**
  - Fairly widespread/widespread rainfall with **isolated heavy falls** and thunderstorm/lightning very likely over Saurashtra & Kutch on 01<sup>st</sup>; Gujarat Region, Madhya Maharashtra & Konkan & Goa on 01<sup>st</sup> & 02<sup>nd</sup> September.

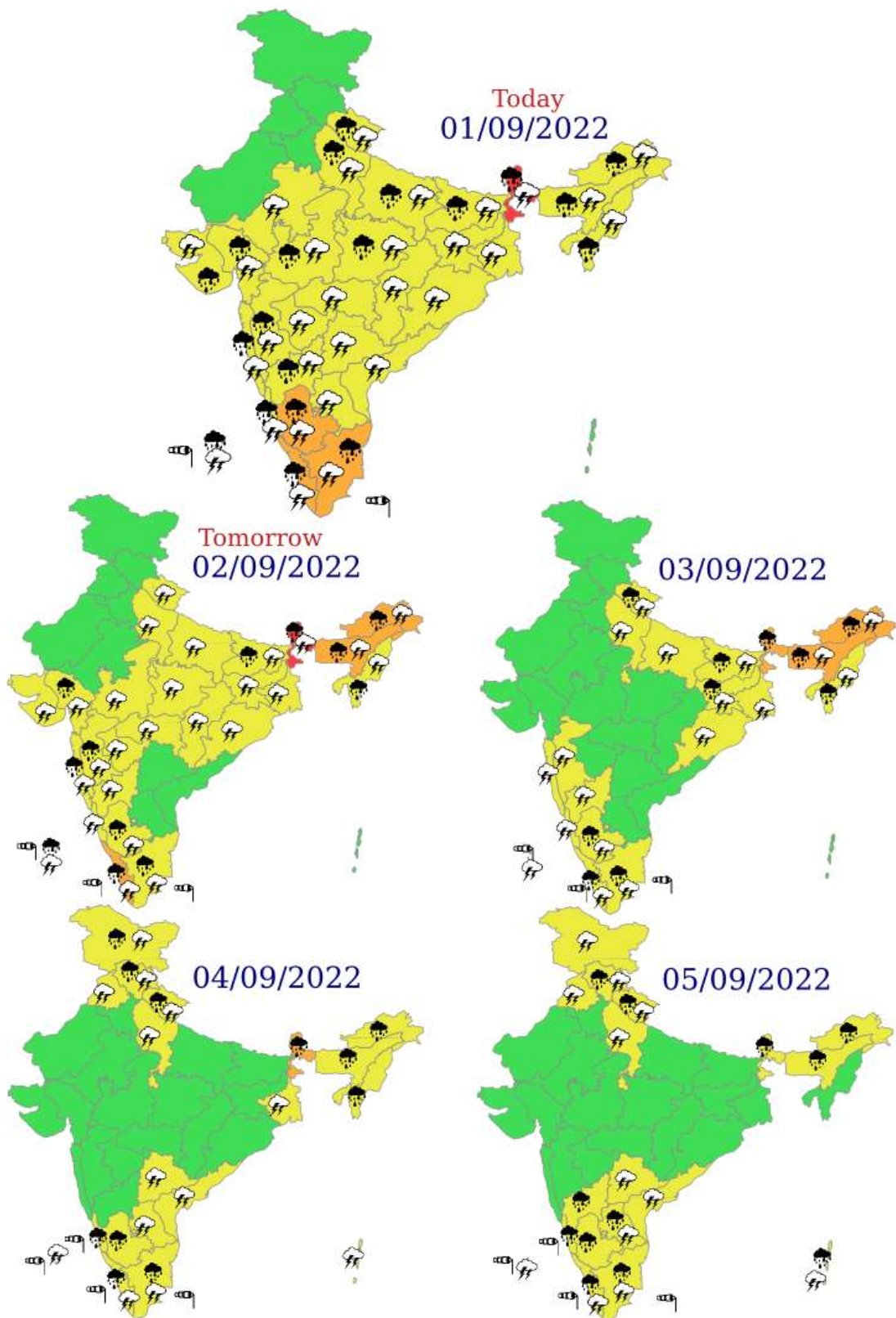
For more details kindly refer:

[https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php)

**Extremely heavy rainfall** occurred at isolated places over Sub-Himalayan West Bengal; **very heavy rainfall** over Sikkim, Bihar, Konkan & Goa, Uttarakhand, Assam & Meghalaya, Madhya Maharashtra, South Interior Karnataka, Tamil Nadu and Kerala and **heavy rainfall** over Himachal Pradesh, West Madhya Pradesh, Gujarat Region, Marathwada, Jharkhand, and Coastal & North Interior Karnataka.

#### Rainfall (in cm):

- ❖ **Sub-Himalayan West Bengal:** Sevoke-24, Bagrakote-23, Gazoledoba-22, Jhallong-20, Champasari-14, Rongo & Murti -12 each, Nagrakata-11, Bagdogra & Neora-8 each, Pedong & Kalimpong-7 each; **South Interior Karnataka:** Anavatti (dist Shivamogga) 18, Jayapura (dist Chikkamagaluru) 9; **Kerala:** Palakkad 17, Malampuzha (Palakkad district)16, Chittur (Palakkad district) 15, Athirappilly(Thrissur district)14, Mannarkkad (Palakkad district) 13, Agathi (Lakshadweep UT) & Vadakara (Kozhikode district) 12 each, Chalakkudy (Thrissur district) 11, Chalakkudy AWS (Thrissur district)10, Kollengode (Palakkad district) 9, C.I.A.L. Kochi & Neryamangalam ARG, Idamalayar DAM, Odakkali, (all in Ernakulam district) 8 each, Perumbavur (Ernakulam district), Manjeri (Malappuram district) & Peringalkuthu AWS, (Thrissur district), Sengulam DAM (Idukki district), Urumi(Kozhikode district), Mannarkkad(Palakkad district), Aluva(Ernakulam district), Perumanna (Malappuram district) 7 each;
- ❖ **Madhya Maharashtra:** Akole (dist Ahmednagar) 17, Rahata (dist Ahmednagar) 11, Ozarkheda - Fmo (dist Nashik) 9, Sinnar (dist Nashik) 9, Junnar (dist Pune) 9, Dindori (dist Nashik) 8, Igatpuri (dist Nashik) 8, Trimbakshwar (dist Nashik) 7, Gidhade - Fmo (dist Dhule) 7, Nashik - Imd Obsy (dist Nashik) 7, Yaval (dist Jalgaon) 7, Ambegaon Ghodegaon (dist Pune) 7;
- ❖ **Assam & Meghalaya:** East Garo Hills: Williamnagar-16, Hailakandi: Matijuri-8, Hailakandi-7, Karbi Anglong-7, Mawkyrwat-7;
- ❖ **Sikkim:** Namchi (AWS) & Namthang (ARG)-14 each, Pakyong-11, Mazitar-10, Tadong (AAWS), Ranipool (AAWS) & Tadong-7 each;
- ❖ **Tamil Nadu:** Thirukuvalai (dist Nagapattinam) 13, Kilacheruvai (dist Cuddalore), Kovilpatti (dist Toothukudi) 11 each, Agaram Seegoor (dist Perambalur), Labbaikudikadu (dist Perambalur) 9 each, Pelandurai (dist Cuddalore), Sholayar (dist Coimbatore) 8 each, Devakottai (dist Sivaganga), Yercaud (dist Salem) 7 each; **Bihar:** West Champaran-13, Nawada-12, Kishanganj-8;
- ❖ **Konkan & Goa:** Mokheda - Fmo (dist Palghar) 12, Matheran (dist Raigad) 9, Poladpur (dist Raigad) 8, Murbad (dist Thane) 7, Talasari (dist Palghar) 7, Chiplun (dist Ratnagiri) 7;
- ❖ **Gujarat Region:** Daman (dist Daman) 10, Daman Fmo (dist Daman) 9, Vapi (dist Valsad) 9, Valsad(dist Valsad) 7; **West Madhya Pradesh:** Badwani (dist Barwani) 10, Sendhwa(med) (dist Barwani) 8, Atner (dist Betul) 7;
- ❖ **Gangetic West Bengal:** Bankura-10, Labpur-8; **Jharkhand:** Koderma-7; **Himachal Pradesh:** Kangra: Dhramshala-7; **Marathwada:** Kannad (dist Aurangabad) 7; **Coastal Karnataka:** Jagalbet (dist Uttara Kannada) 8, Yellapur (dist Uttara Kannada) 7; **North Interior Karnataka:** Bailhongal (dist Belagavi) 7; **East Madhya Pradesh:** Waraseoni (dist Balaghat) 9, Pushprajgarh (dist Anuppur) 9, Karanjia (dist Dindori) 7; **Uttarakhand:** Bageshwar: Sama-13, Loharkhet-12.



## IMPACT EXPECTED & ACTION SUGGESTED DUE TO-

**(i) Isolated extremely heavy rainfall** over Sub-Himalayan West Bengal & Sikkim on 01<sup>st</sup> & 02<sup>nd</sup> September, 2022.

**(ii) Isolated very heavy rainfall** over Tamil Nadu & South Interior Karnataka on 01<sup>st</sup>; Kerala & Mahe and Lakshadweep on 01<sup>st</sup> & 02<sup>nd</sup>; Arunachal Pradesh and Assam & Meghalaya on 02<sup>nd</sup> & 03<sup>rd</sup>; Uttarakhand on 04<sup>th</sup> and over Sub-Himalayan West Bengal & Sikkim on 3<sup>rd</sup> & 04<sup>th</sup> September, 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)               |



 **Thunderstorm with Lightning**



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