



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

**Press Release**

**Date: 15<sup>th</sup> December, 2023**

**Time of Issue: 1230 hours IST**

**Subject: Intense spell of rainfall activity over extreme south Peninsular India during next 3-4 days.**

**Realized weather during past 24 hours till 0830 hours IST of today:**

**Minimum temperatures** are in the range of 5-10°C over most parts of Punjab, Haryana-Chandigarh-Delhi, north Rajasthan and Uttar Pradesh.

**Weather Systems and Forecast & Warnings during next 5 days: (graphics in Annexure I)**

**Weather Systems**

- A Cyclonic Circulation lies over southwest Bay of Bengal & adjoining Equatorial Indian Ocean in lower tropospheric levels.
- A Western Disturbance as a trough in middle tropospheric levels runs roughly along Long. 58°E and north of Lat. 28°N.

**Forecast & Warnings:**

- Light to moderate rainfall at a few places very likely over Tamil Nadu and Kerala & Mahe on 15<sup>th</sup>, 18<sup>th</sup> and 19<sup>th</sup> December. It is likely at many places over Tamil Nadu and Kerala & Mahe on 16<sup>th</sup> & 17<sup>th</sup> and over Lakshadweep during 16<sup>th</sup> - 19<sup>th</sup> December.
- **Isolated heavy rainfall likely over south Tamil Nadu during 15<sup>th</sup> to 19<sup>th</sup> and over Kerala on 16<sup>th</sup> & 17<sup>th</sup> December. Isolated very heavy rainfall is also very likely over south Tamil Nadu on 16<sup>th</sup> & 17<sup>th</sup> and over south Kerala on 17<sup>th</sup> December, 2023.**
- Isolated rainfall/snowfall is very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 16<sup>th</sup> & 17<sup>th</sup> and over Himachal Pradesh on 16<sup>th</sup> December.
- No significant weather likely over remaining parts of the country during next 5 days.

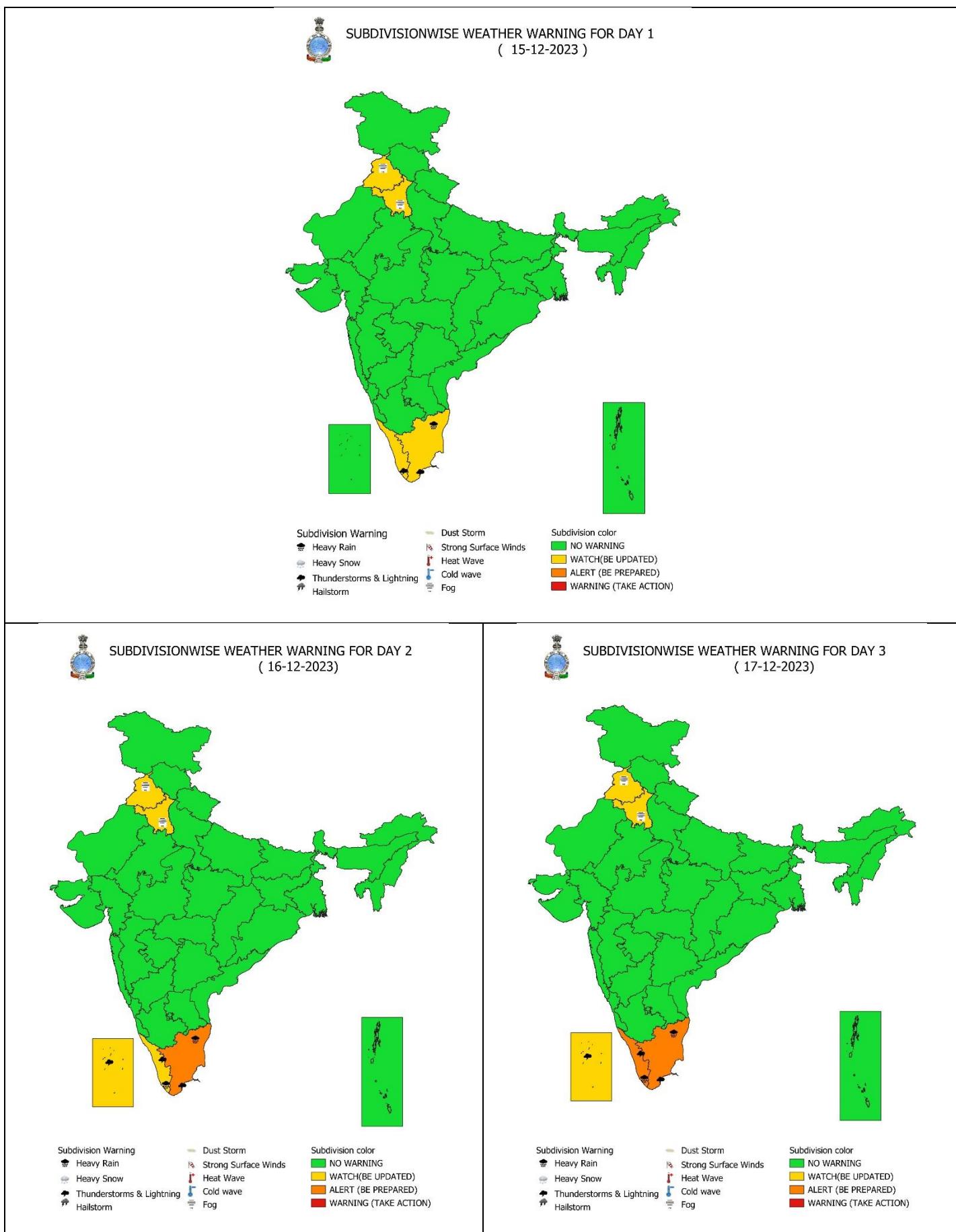
**Dense fog warning:**

- **Dense fog** during morning hours very likely in isolated pockets over Punjab and Haryana during next 5 days.

**Minimum Temperatures Forecast:**

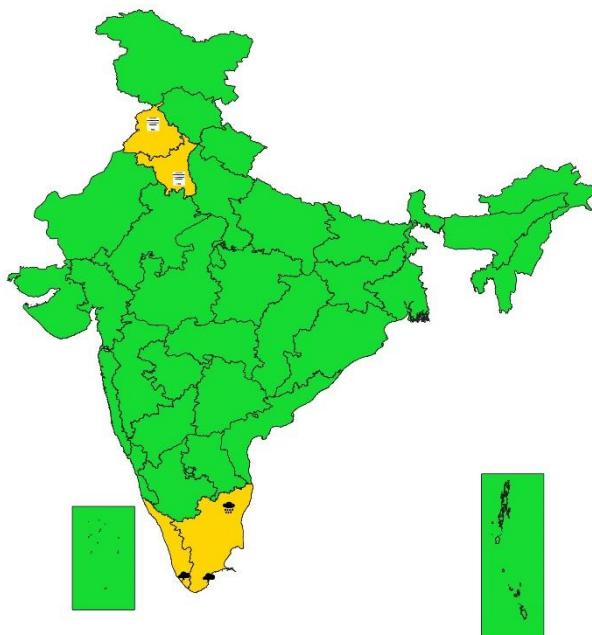
- No significant change in Minimum Temperatures likely over northern parts of the country during next 4-5 days.

For more details kindly refer: [https://mausam.imd.gov.in/responsive/all\\_india\\_forcast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php) and <https://mausam.imd.gov.in/responsive/cycloneinformation.php>





SUBDIVISIONWISE WEATHER WARNING FOR DAY 4  
( 18-12-2023)

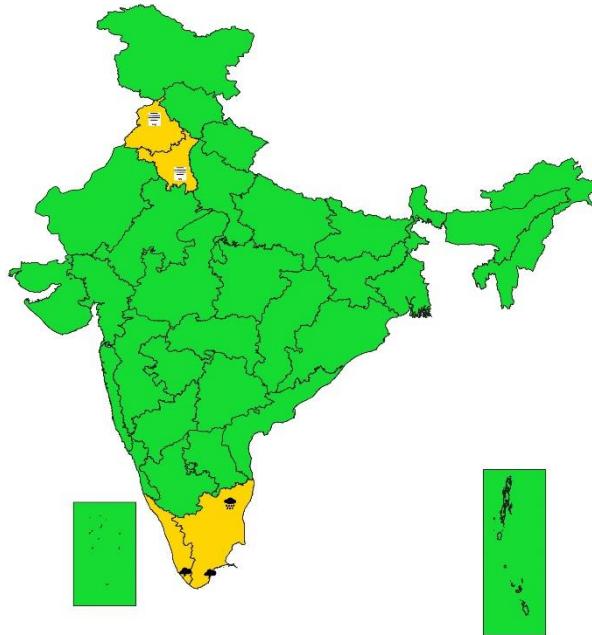


Subdivision Warning  
Heavy Rain  
Heavy Snow  
Thunderstorms & Lightning  
Hailstorm  
Dust Storm  
Strong Surface Winds  
Heat Wave  
Cold wave  
Fog

Subdivision color  
NO WARNING  
WATCH(BE UPDATED)  
ALERT (BE PREPARED)  
WARNING (TAKE ACTION)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5  
( 19-12-2023)



Subdivision Warning  
Heavy Rain  
Heavy Snow  
Thunderstorms & Lightning  
Hailstorm  
Dust Storm  
Strong Surface Winds  
Heat Wave  
Cold wave  
Fog

Subdivision color  
NO WARNING  
WATCH(BE UPDATED)  
ALERT (BE PREPARED)  
WARNING (TAKE ACTION)

- Impact & Action Suggested due to very heavy rainfall over south Tamil Nadu on 16<sup>th</sup> & 17<sup>th</sup> and over south Kerala on 17<sup>th</sup> December, 2023.

#### 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 kutch 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:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation
- ❖ **Region wise classification of meteorological Sub-Divisions:**

- **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.
- **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- **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 Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)

Subdivision Warning	Dust Storm	Subdivision color
Heavy Rain	Strong Surface Winds	NO WARNING
Heavy Snow	Heat Wave	WATCH(BE UPDATED)
Thunderstorms & Lightning	Cold wave	ALERT (BE PREPARED)
Hailstorm	Fog	WARNING (TAKE ACTION)

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

Flash Flood Risk	
High Risk (Take Action)	
Moderate Risk (Be Prepared)	
Low Risk (Be Updated)	