



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

**Press Release
Date: 09th December, 2023
Time of Issue: 1200 hours IST**

Subject: Isolated heavy rainfall likely to continue over extreme south Peninsular India on 09th & 10th December.

Realized weather during past 24 hours till 0830 hours IST of today: (Refer Annexure I)

Weather systems:

- The cyclonic circulation over Southeast Arabian Sea & adjoining Maldives area in lower & middle tropospheric levels.
- A fresh feeble Western Disturbance is likely to affect Western Himalayan Region from 11th December.

Rainfall Warning (graphics in Annexure II):

- Light to moderate rainfall at some to many places accompanied with isolated thunderstorm, lightning and gusty winds very likely over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal during next 3-4 days.
- Isolated **heavy rainfall** also very likely over Kerala on 9th & 10th and over Tamil Nadu on 9th December. **Isolated very heavy rainfall also likely over Kerala & Mahe on 9th December.**
- **Hailstorm** also likely at isolated places over Sub-Himalayan West Bengal & Sikkim on 12th December.

Dense fog warning:

- **Dense fog** during morning hours very likely in isolated pockets over north Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya on 10th & 11th December.

Minimum Temperatures Forecast:

- Gradual fall in Minimum Temperatures by about 2-3°C are very likely over Central & East India during next 2 days and no significant change thereafter.
- No significant change in Minimum Temperatures over rest parts of the country during next 4-5 days.

For more details kindly refer: https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php and <https://mausam.imd.gov.in/responsive/cycloneinformation.php>

Realized weather during past 24 hours till 0830 hours IST of today (09.12.2023):

- **Heavy to very heavy rainfall** observed Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Significant Rainfall Amount:
 - **Kerala & Mahe:** Kurudamannil (District: Pathanamthitta)18, Chittur (District: Palakkad)13, Kunnankulam(District: Thrissur)8, Neryamangalam (District: Ernakulam) 7, Poonjar Aws (District: Kollam) 7, Malampuzha Dam Aws (District: Palakkad)7, Palakkad (District: Palakkad)7;
 - **Tamil Nadu:** Kil kotagiri Estate (dist The Nilgiris) 12, Air Peelamedu (dist Coimbatore) 11, Taluk office Pandalur (dist The Nilgiris) 10, Devala (dist The Nilgiris) 9, Kunderipallam (dist. Erode) 10, Manjalar (dist. Theni) 9, Palayankottai (dist. Tirunelveli) 9, Sular (dist Coimbatore) 8, Coimbatore (dist Coimbatore) 8, Thirumurthi Dam (dist. Tiruppur) 7, Vadipatti (dist. Madurai) 7.

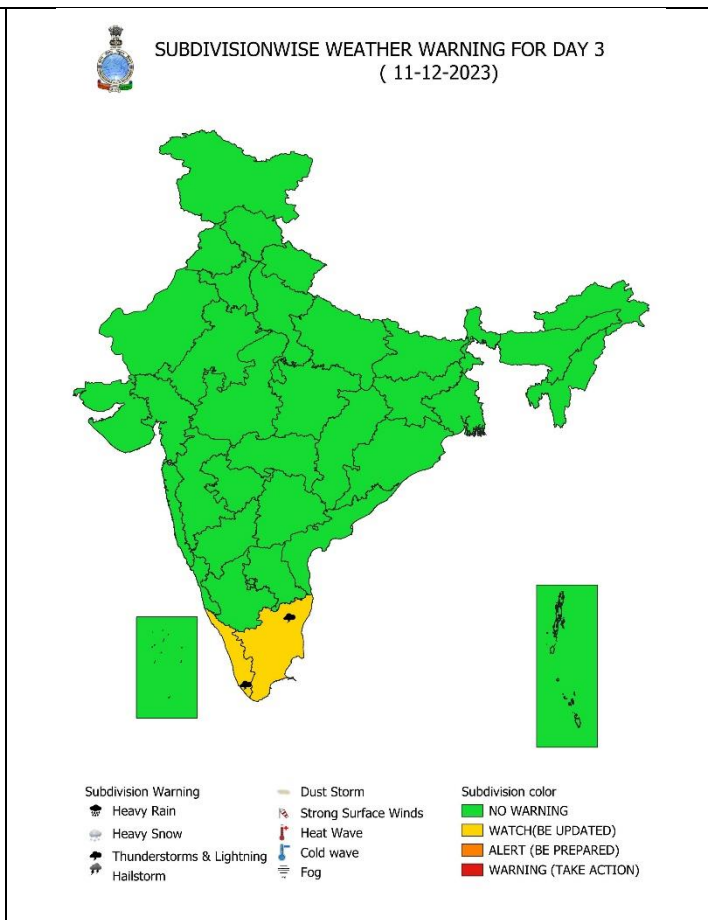
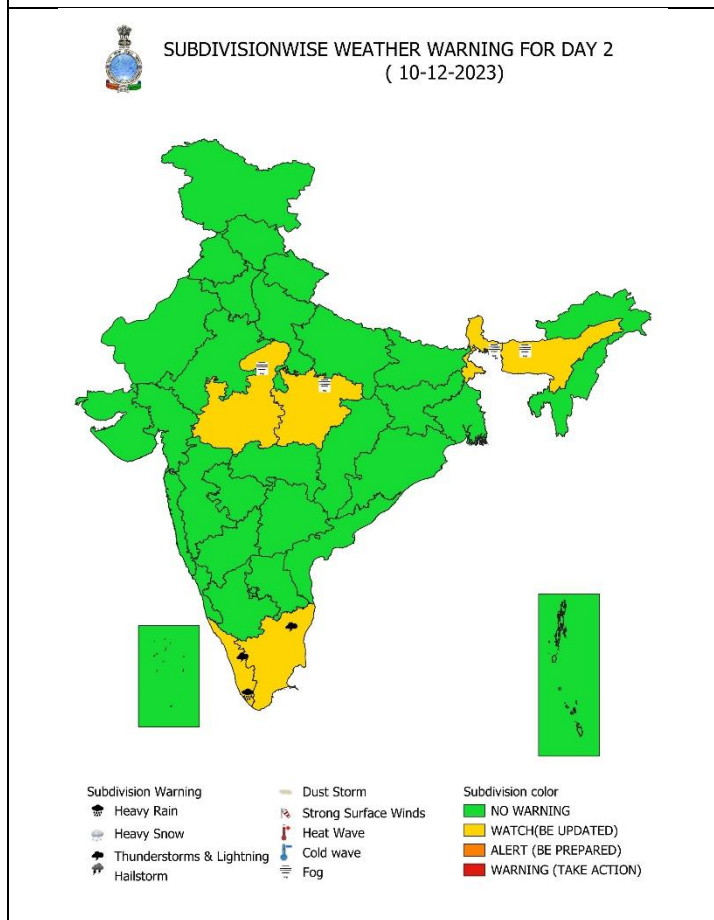
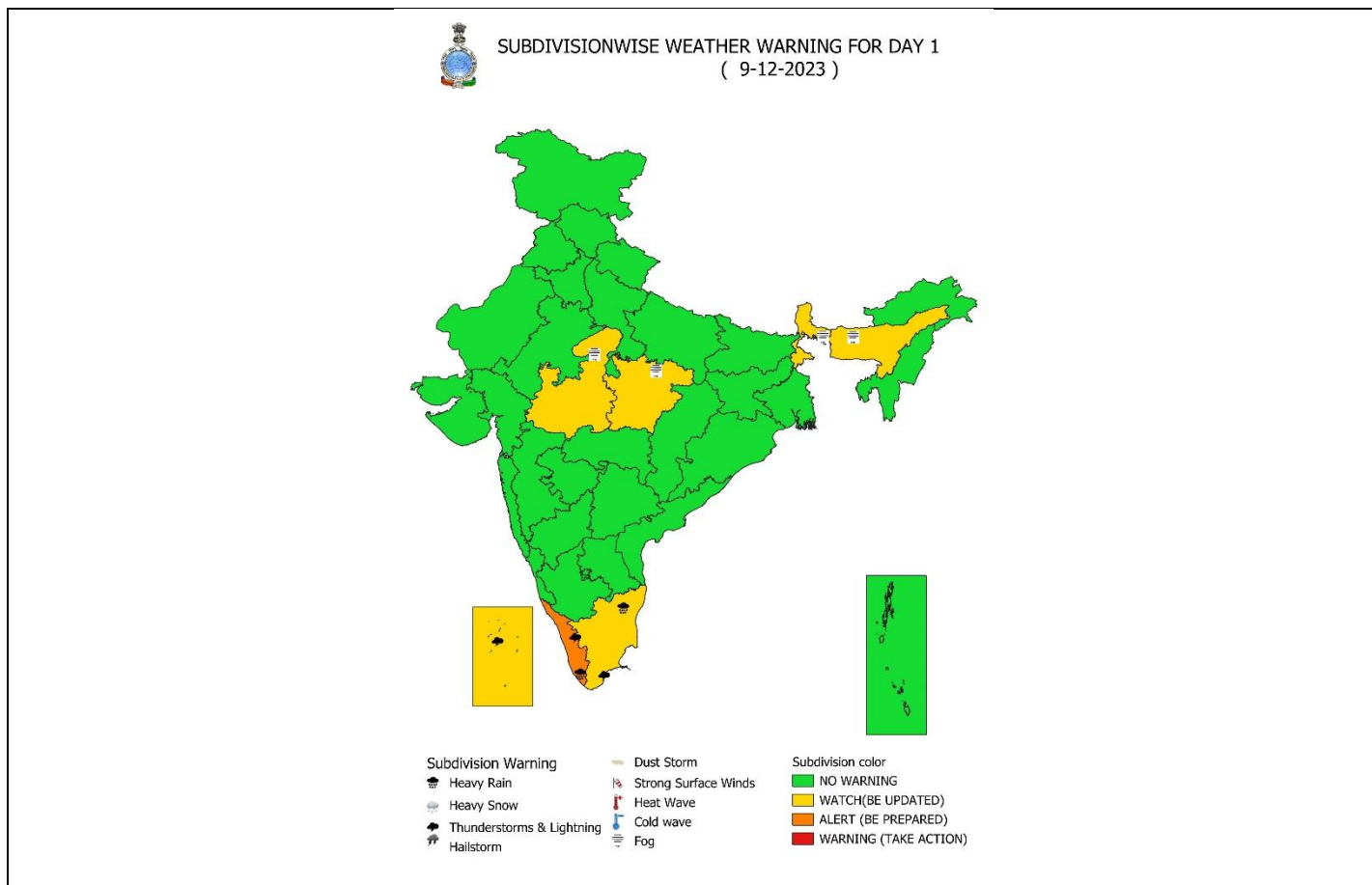
IMPACT & ACTION SUGGESTED due to very heavy rainfall over Kerala & Mahe on 09th December.

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)

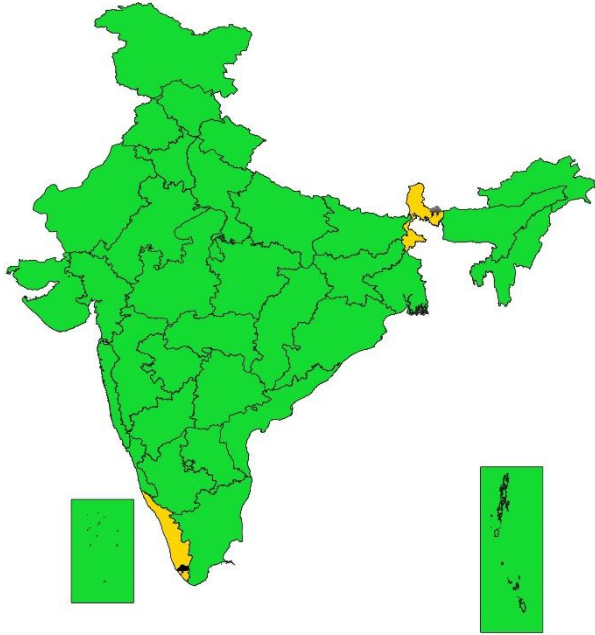
B. Action Suggested

- 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.





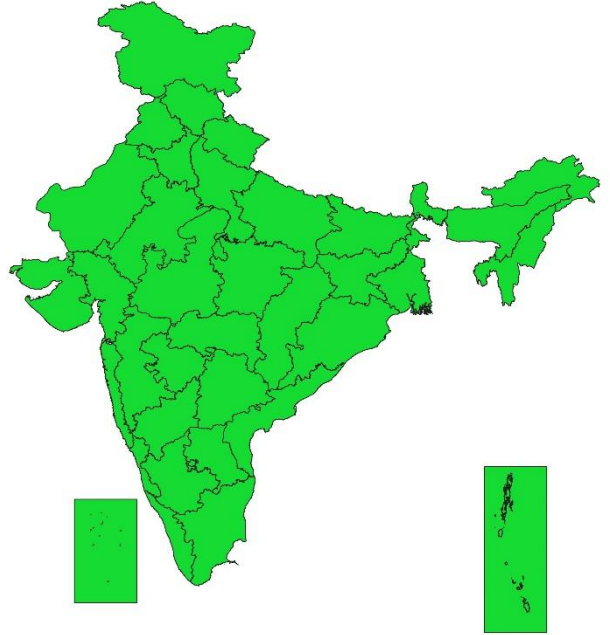
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(12-12-2023)**



- | | | |
|----------------------------|----------------------|--------------------------|
| 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) |



**SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
(13-12-2023)**



- | | | |
|----------------------------|----------------------|--------------------------|
| 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) |

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 Widespread (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)