



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

**Press Release  
Date: 20<sup>th</sup> November, 2023  
Time of Issue: 1230 hours IST**

**Subject: A fresh easterly wave is likely to cause heavy rainfall spell over south Peninsular India during next 5 days.**

**Rainfall recorded during past 24 hours till 0830 hours IST of today:**

- ❖ **Heavy rainfall** observed at isolated places over Tamil Nadu and Andaman & Nicobar Islands.
  - ❖ **Significant Rainfall Amount (in cm):** Kulasekarapattinam (dist Thoothukudi) 16, Satankulam (dist Thoothukudi) 12, Tiruchendur (dist Thoothukudi) 11, Kayalpattinam (dist Thoothukudi), Oothu (dist Tirunelveli) 9 each, Satankulam ARG (dist Thoothukudi), Kakkachi (dist Tirunelveli), Manjolai (dist Tirunelveli) 8 each, Thiruchendur AWS (dist Thoothukudi), Kodumudiyaru Dam (dist Tirunelveli), Radhapuram (dist Tirunelveli), Kadaladi (dist Ramanathapuram), Nalumukku (dist Tirunelveli) 7 each, Car Nicobar (dist Nicobar)- 8.

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

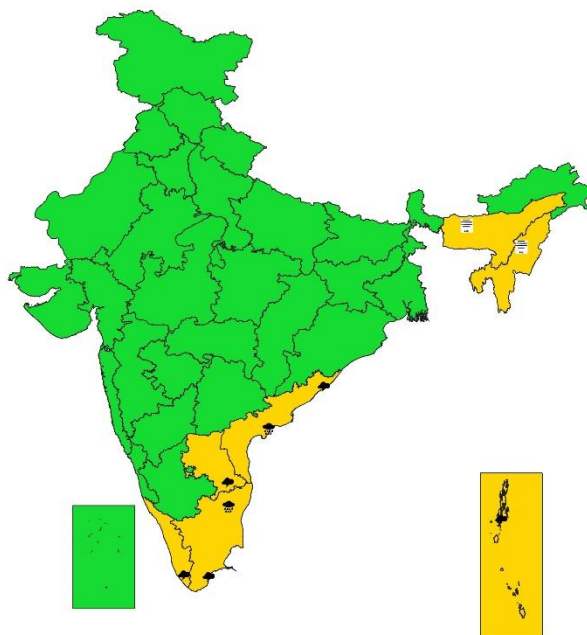
- ❖ A trough in easterly at mean sea level runs from Sri Lanka to Southwest & adjoining Westcentral Bay of Bengal.
- ❖ An upper air Cyclonic Circulation lies over Comorin area and another Cyclonic Circulation lies over Southwest Bay of Bengal off Tamil Nadu coast in the lower tropospheric levels.
- ❖ Under the influence of above meteorological conditions:
  - ✓ Light to moderate rainfall at many places with **isolated heavy rainfall** is very likely over Tamil Nadu during 20<sup>th</sup>-24<sup>th</sup>; over Kerala & Mahe during 21<sup>st</sup> – 24<sup>th</sup>; over Coastal Andhra Pradesh on 20<sup>th</sup> & 21<sup>st</sup> and over South Interior Karnataka during 22<sup>nd</sup> – 24<sup>th</sup> November, 2023.
  - ✓ **Isolated very heavy rainfall also likely over Tamil Nadu and Kerala on 22<sup>nd</sup> & 23<sup>rd</sup> November, 2023.**

**No significant weather likely over rest parts of the country.**

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



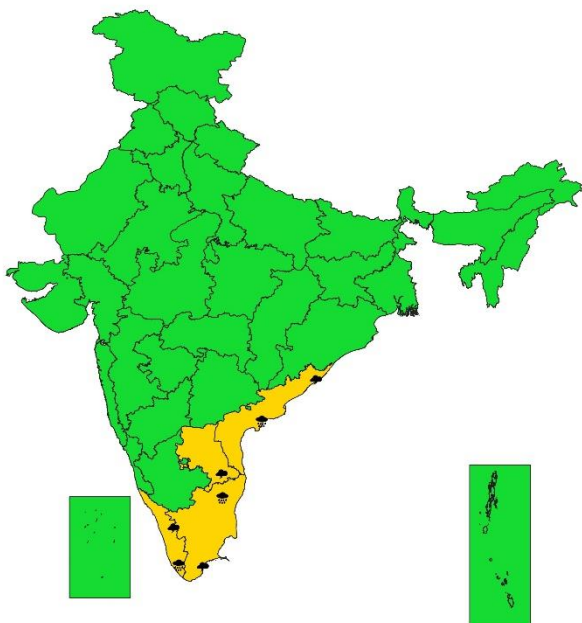
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 1**  
( 20-11-2023 )



- |                            |                      |                          |
|----------------------------|----------------------|--------------------------|
| <b>Subdivision Warning</b> | Dust Storm           | <b>Subdivision color</b> |
| 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)    |



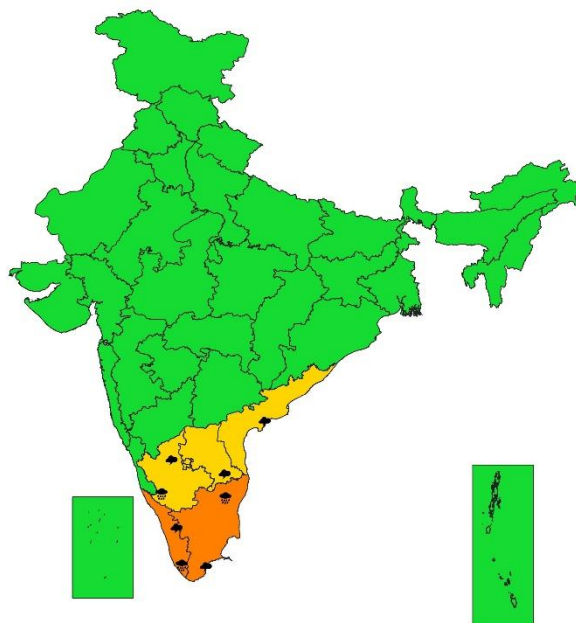
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 2**  
( 21-11-2023 )



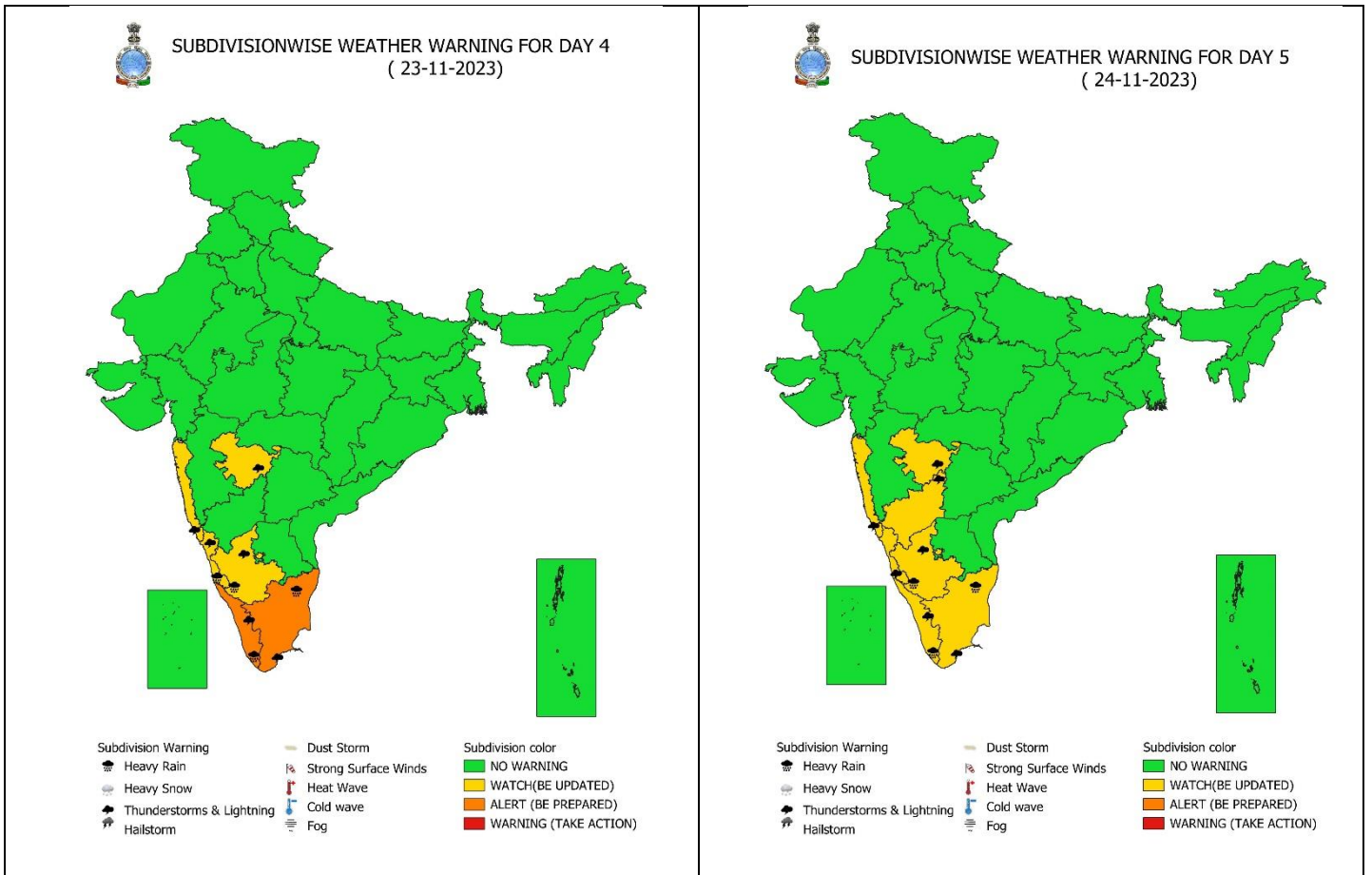
- |                            |                      |                          |
|----------------------------|----------------------|--------------------------|
| <b>Subdivision Warning</b> | Dust Storm           | <b>Subdivision color</b> |
| Heavy Rain                 | Strong Surface Winds | NO 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 3**  
( 22-11-2023 )



- |                            |                      |                          |
|----------------------------|----------------------|--------------------------|
| <b>Subdivision Warning</b> | Dust Storm           | <b>Subdivision color</b> |
| 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)    |



**Impact & Action Suggested due to very heavy rainfall** over coastal Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe on 22<sup>nd</sup> & 23<sup>th</sup> November.

### 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 kutchra 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-Himalaya 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.

<b>SPATIAL DISTRIBUTION</b> (% 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
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 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)