



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

**Press Release
Date: 21st November, 2023
Time of Issue: 1245 hours IST**

Subject: An easterly wave is likely to cause heavy rainfall spell over south Peninsular India during next 4 days.

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

- ❖ **Heavy rainfall** observed at isolated places over Coastal Andhra Pradesh, Rayalaseema, Tamil Nadu.
 - ❖ **Significant Rainfall Amount (in cm): Rayalaseema:** Gudur (dist Tirupati) 9, Sullurpeta (dist Tirupati) 7; **Coastal Andhra Pradesh:** Nellore (dist Spsr Nellore) 9; **Tamil Nadu:** DGP Office (dist Chennai), Ponneri (dist Tiruvallur) 9 each, Chennai Collector Office (dist Chennai) 8.

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

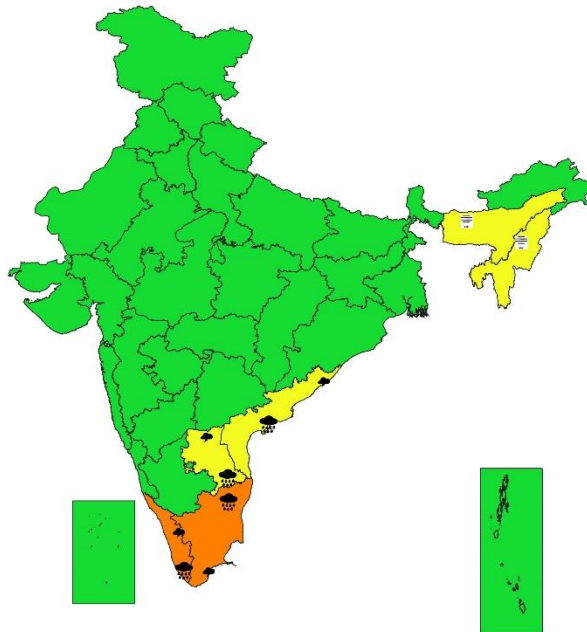
- ❖ A trough in easterly runs from over Comorin area to Westcentral off Andhra Pradesh coast in lower tropospheric levels. It is very likely to cause:
 - ✓ Light to moderate rainfall at many places with **isolated heavy rainfall** over Tamil Nadu during 21st - 23rd; over Kerala & Mahe during 21st – 24th; over Coastal Andhra Pradesh, Rayalaseema on 21st; over Coastal Karnataka on 23rd and over South Interior Karnataka on 23rd & 24th November, 2023.
 - ✓ **Isolated very heavy rainfall also likely over Tamil Nadu on 21st & 22nd and over Kerala during 21st -23rd November, 2023.**
 - ✓ Light to moderate rainfall at scattered to few places very likely over Central India and West coast during 24th -27th 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
and <https://mausam.imd.gov.in/responsive/cycloneinformation.php>



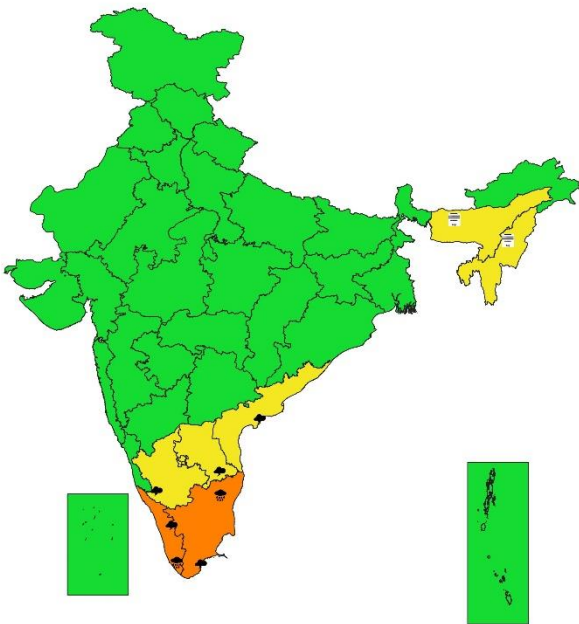
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
(21-11-2023)



- | | | |
|--|---|--|
| <p>Subdivision Warning</p> <ul style="list-style-type: none"> Heavy Rain Heavy Snow Thunderstorms & Lightning Hailstorm | <p>Subdivision color</p> <ul style="list-style-type: none"> NO WARNING WATCH(BE UPDATED) ALERT (BE PREPARED) WARNING (TAKE ACTION) | <ul style="list-style-type: none"> Dust Storm Strong Surface Winds Heat Wave Cold wave Fog |
|--|---|--|



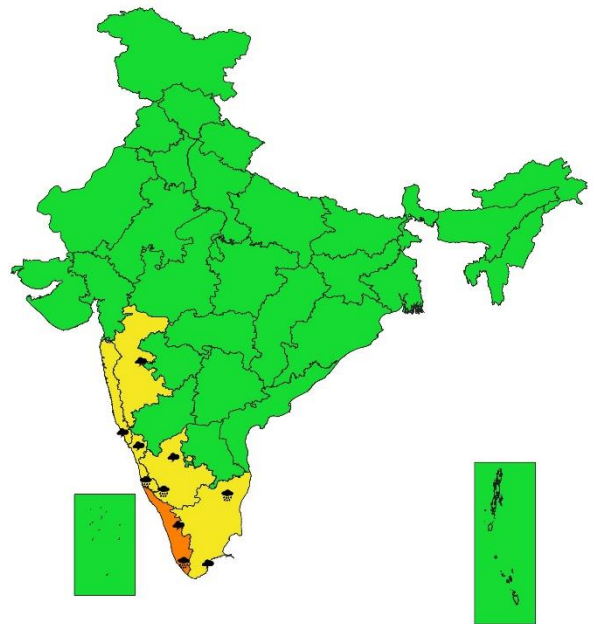
SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
(22-11-2023)



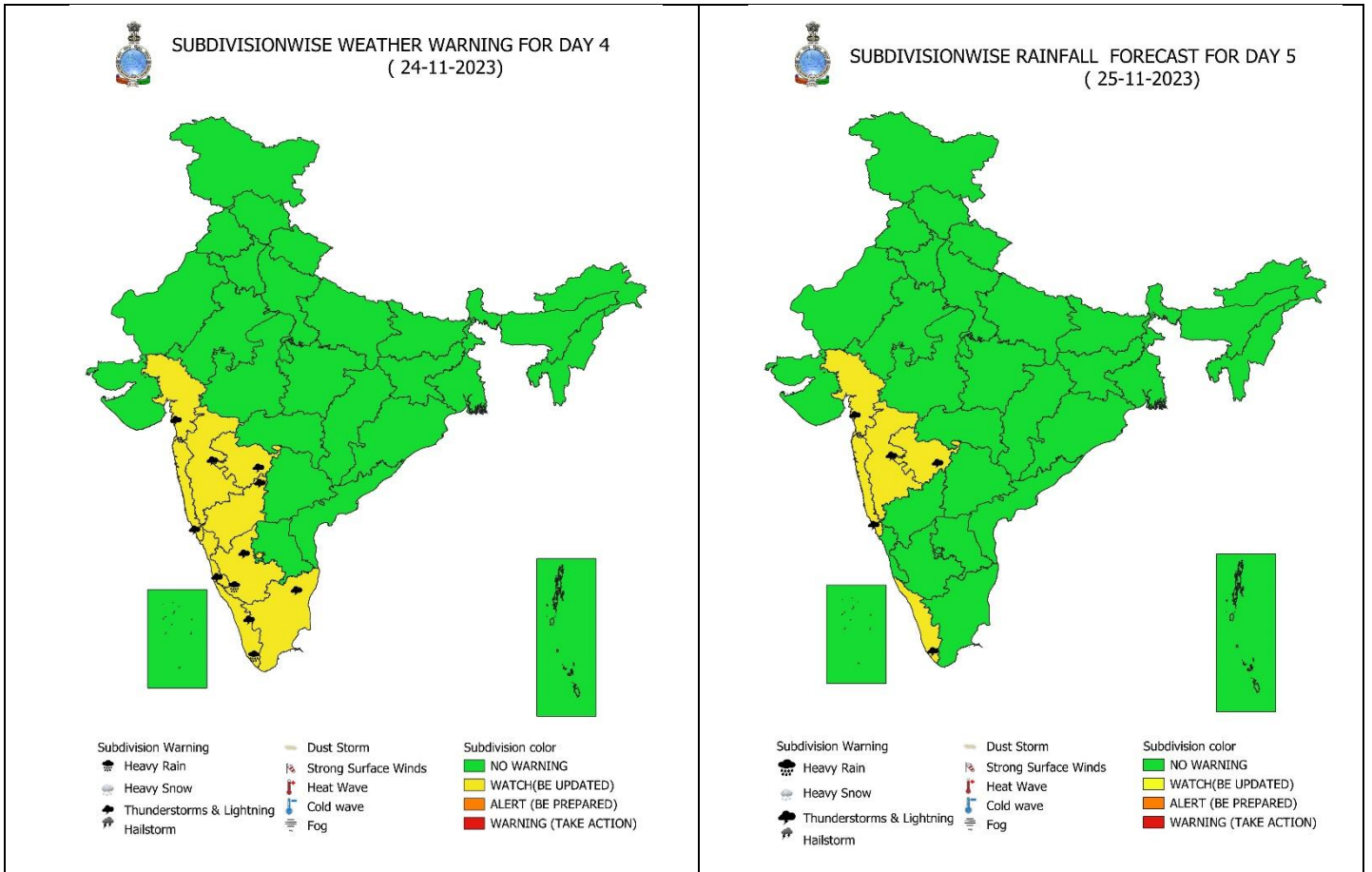
- | | | |
|--|---|--|
| <p>Subdivision Warning</p> <ul style="list-style-type: none"> Heavy Rain Heavy Snow Thunderstorms & Lightning Hailstorm | <p>Subdivision color</p> <ul style="list-style-type: none"> NO WARNING WATCH(BE UPDATED) ALERT (BE PREPARED) WARNING (TAKE ACTION) | <ul style="list-style-type: none"> Dust Storm Strong Surface Winds Heat Wave Cold wave Fog |
|--|---|--|



SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(23-11-2023)



- | | | |
|--|---|--|
| <p>Subdivision Warning</p> <ul style="list-style-type: none"> Heavy Rain Heavy Snow Thunderstorms & Lightning Hailstorm | <p>Subdivision color</p> <ul style="list-style-type: none"> NO WARNING WATCH(BE UPDATED) ALERT (BE PREPARED) WARNING (TAKE ACTION) | <ul style="list-style-type: none"> Dust Storm Strong Surface Winds Heat Wave Cold wave Fog |
|--|---|--|



Impact & Action Suggested due to very heavy rainfall over Tamil Nadu, Puducherry & Karaikal on 21st & 22nd November and Kerala & Mahe during 21st-23rd November,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 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:** >204.4mm.
- ❖ **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.

| 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) |