



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 17<sup>th</sup> May, 2024

Time of Issue: 1400 hours IST

Special Message: 2

**Subject: Wet spell with isolated heavy to very heavy rainfall very likely to continue over south Peninsular India till 23<sup>rd</sup> May, 2024.**

**Realised weather during past 24 hours till 0830 hours IST of today: (details in Annexure I)**

- ❖ **Heavy to very heavy rainfall** observed at isolated places over Coastal Andhra Pradesh, Telangana; **Heavy rainfall** at isolated places over Coastal & South Interior Karnataka, Tamil Nadu and Kerala.

**Weather Systems and Forecast & Warnings: (Annexure II)**

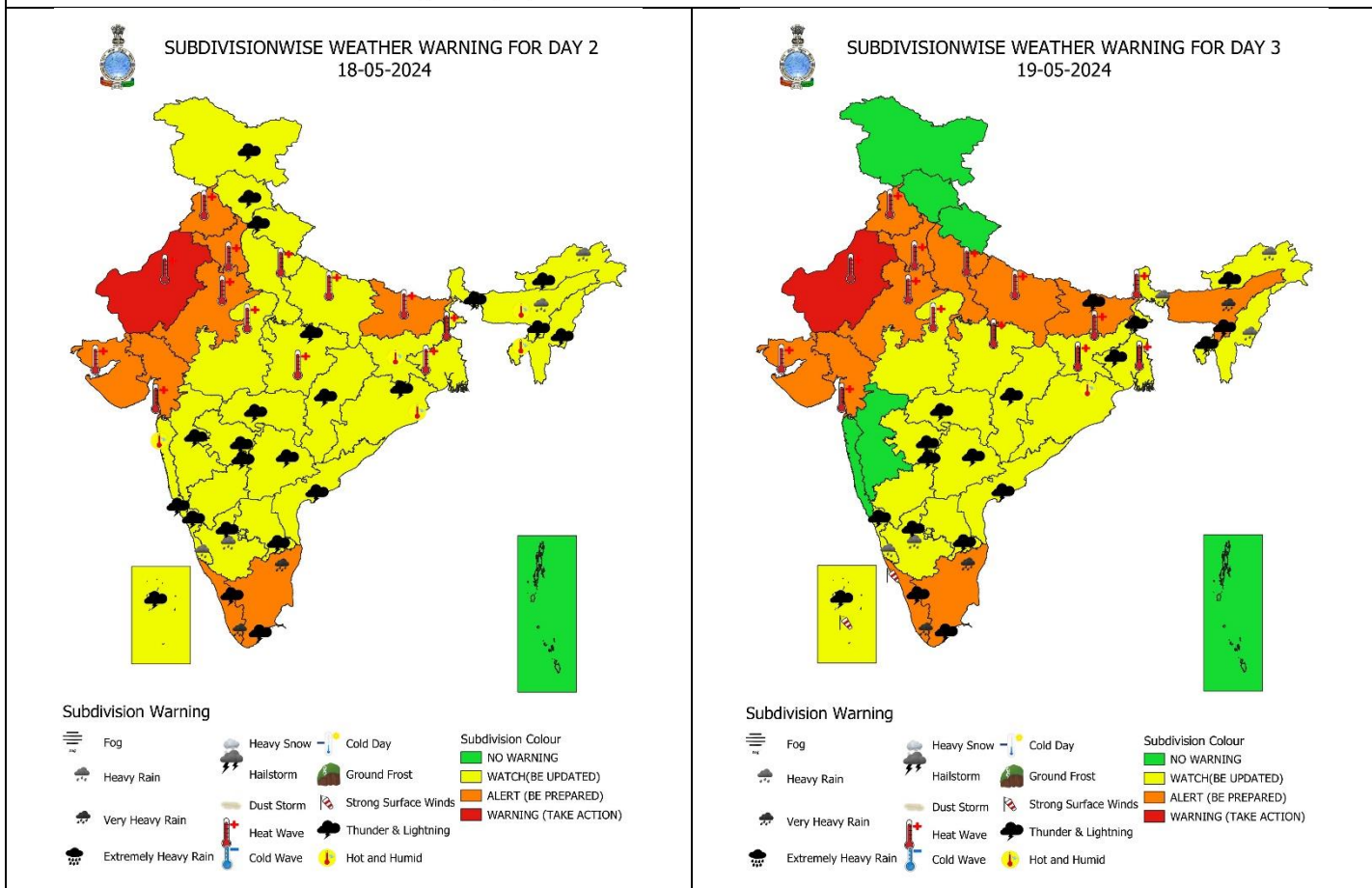
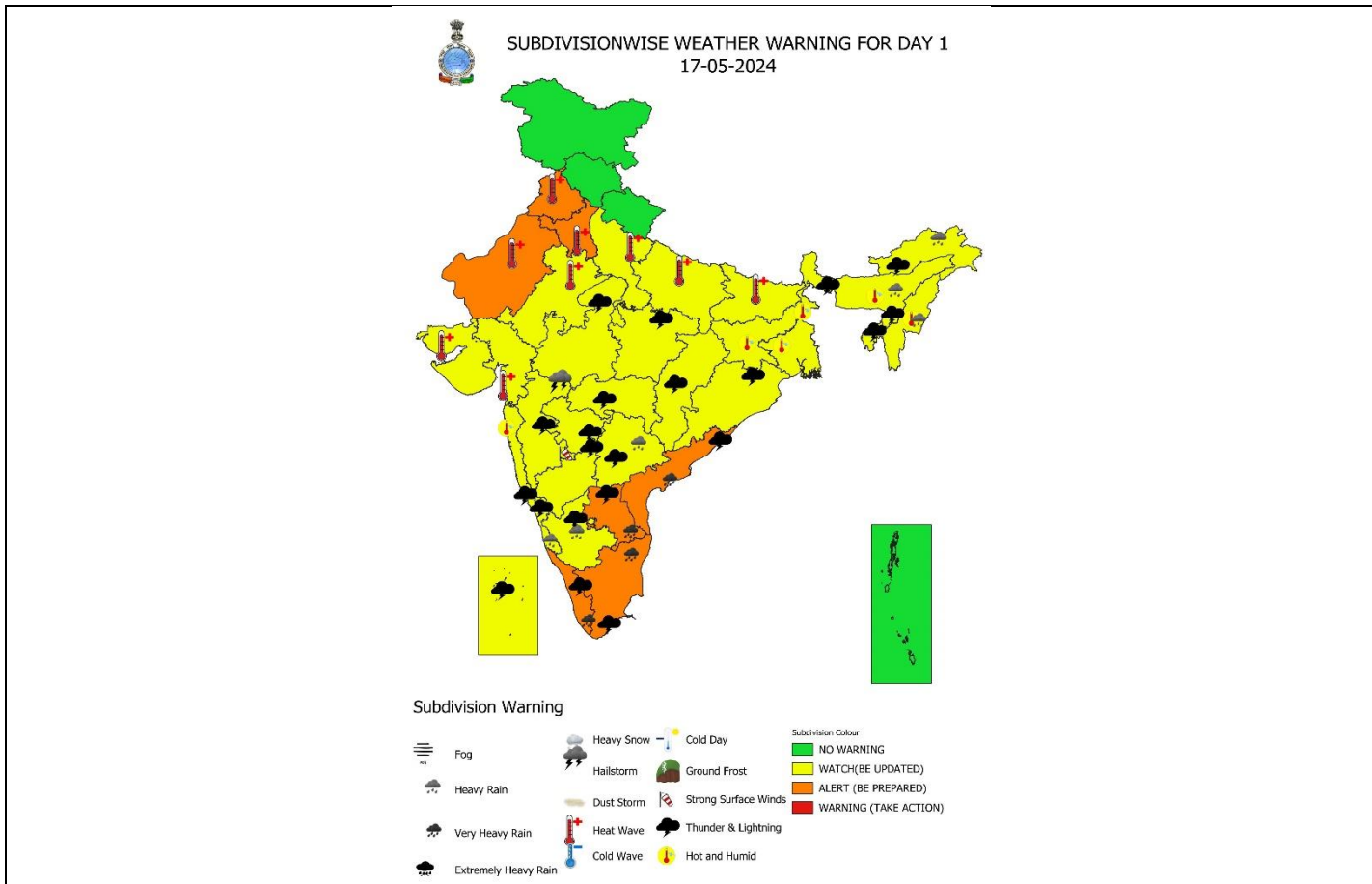
- ❖ A cyclonic circulation lies over south Tamil Nadu & neighbourhood in lower tropospheric levels and another over Rayalaseema & adjoining north Tamil Nadu in lower & middle tropospheric levels. A trough runs from south Chhattisgarh to Comorin area in lower tropospheric levels. Under their influence:
  - Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, south Karnataka and Isolated to scattered light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** over Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema during next 7 days.
  - **Isolated heavy rainfall very likely over Tamil Nadu-Puducherry-Karaikal, Kerala-Mahe; Coastal & South Interior Karnataka during 17<sup>th</sup>-21<sup>st</sup> and Lakshadweep on 20<sup>th</sup> & 21<sup>st</sup> May, 2024.**
  - **Isolated very heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal during 17<sup>th</sup>-21<sup>st</sup>; Kerala & Mahe 17<sup>th</sup>-19<sup>th</sup>; Coastal Andhra Pradesh, Rayalaseema on 17<sup>th</sup> and South Interior Karnataka on 20<sup>th</sup> & 21<sup>st</sup> May, 2024.**
  - **Isolated extremely heavy rainfall also very likely over Kerala on 20<sup>th</sup> & 21<sup>st</sup> May, 2024.**

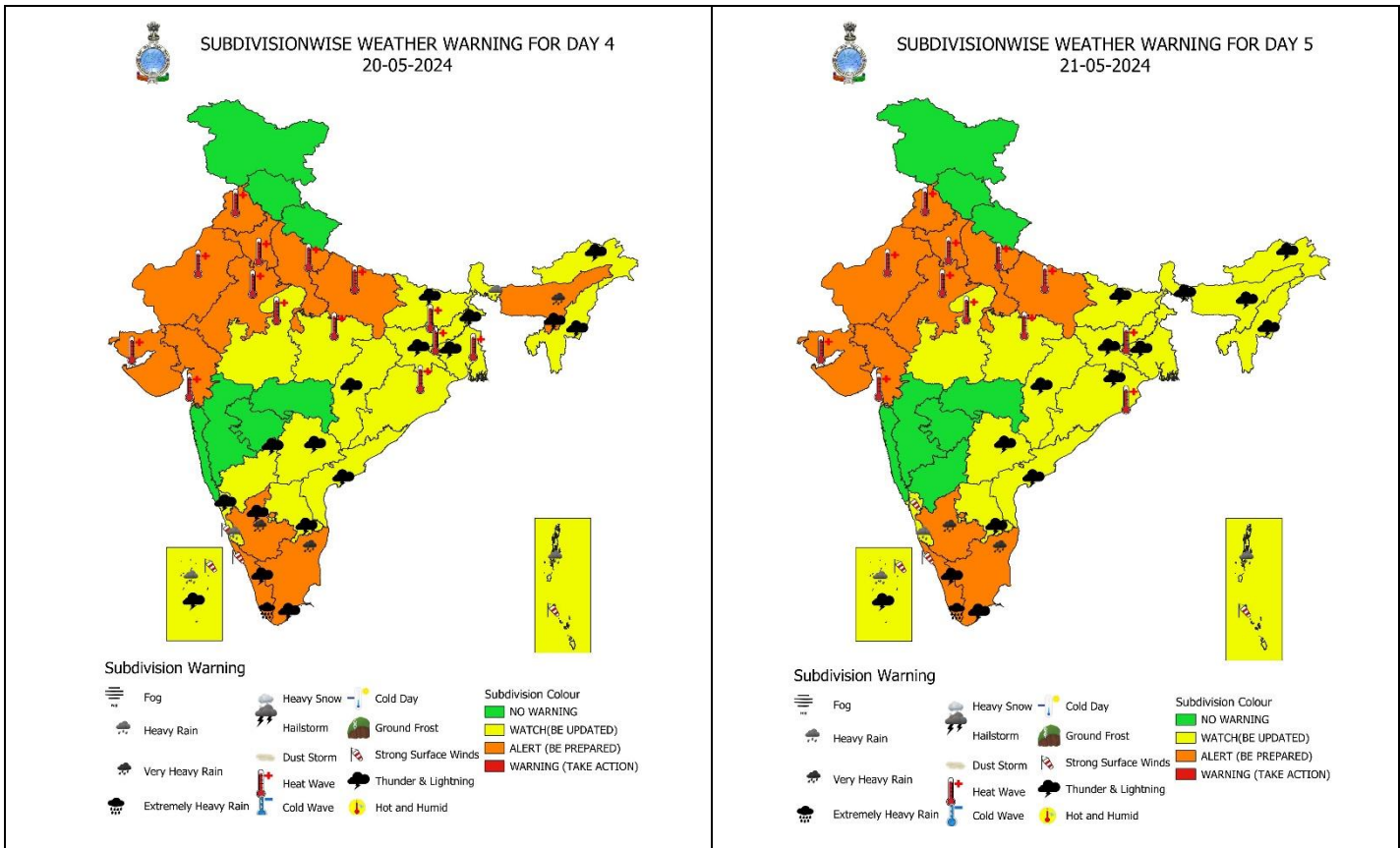
For more details, kindly refer: [https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

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

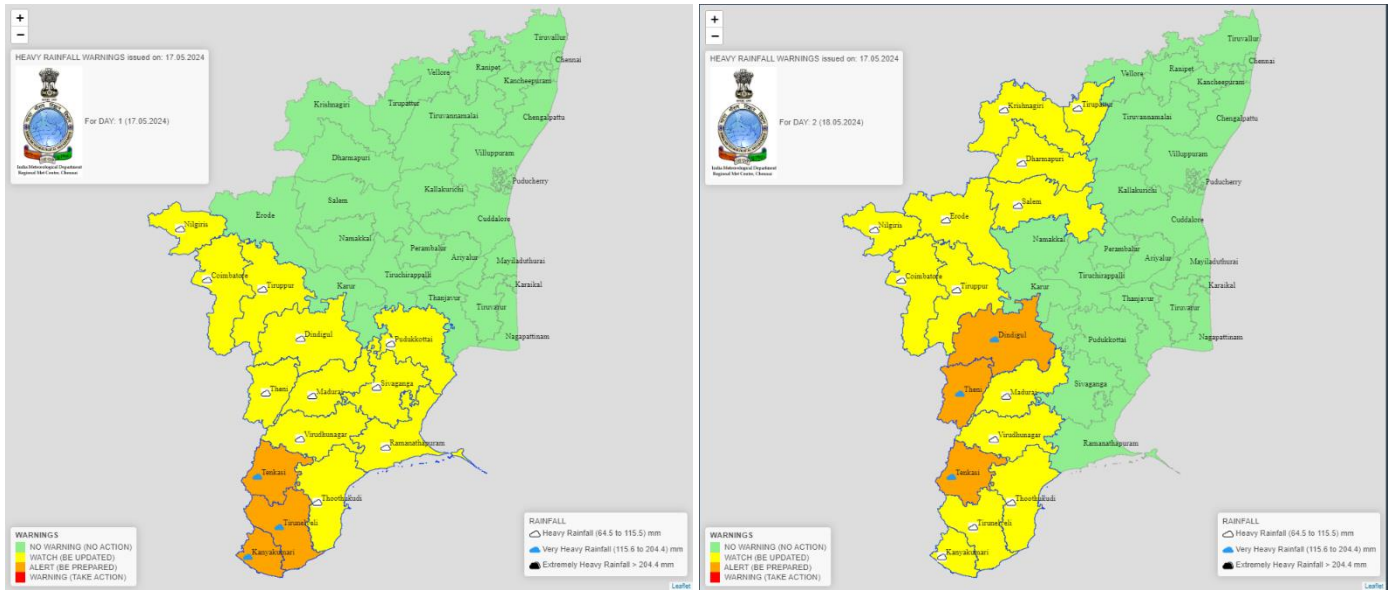
**Significant amount of rainfall (in cm):**

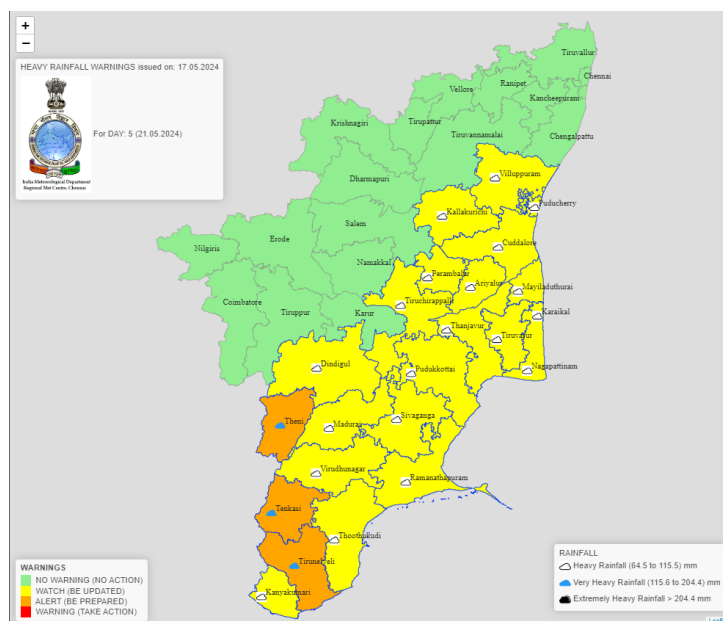
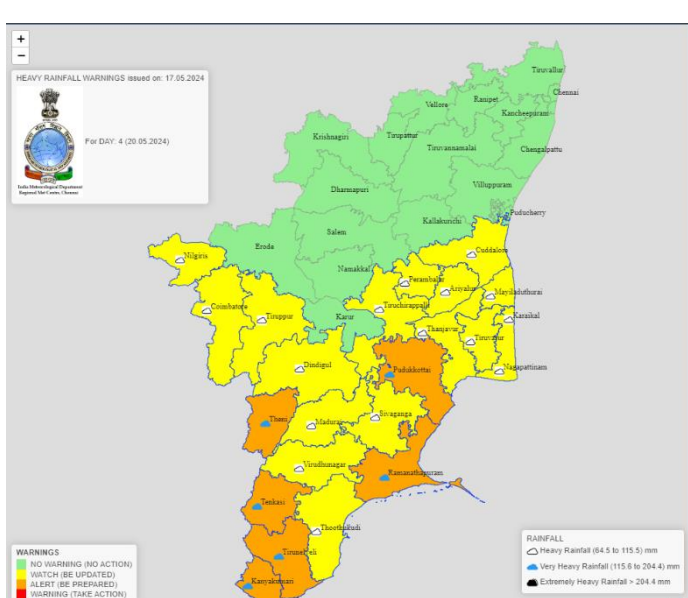
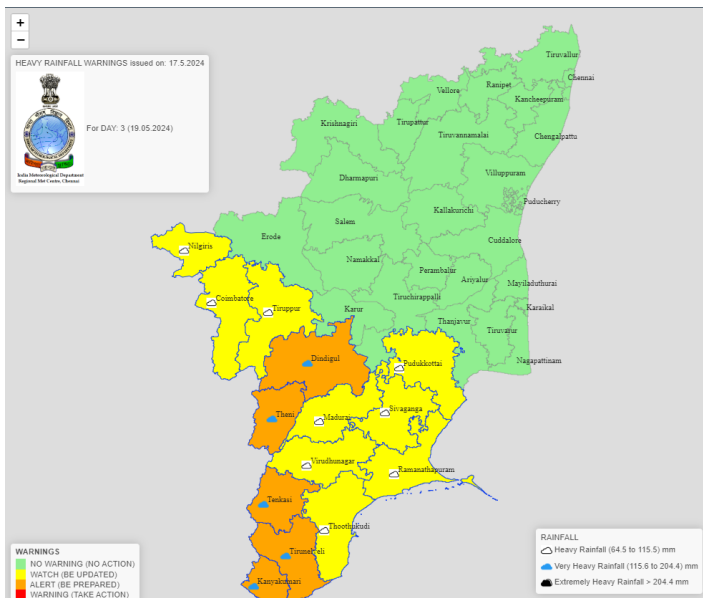
- ❖ **Telangana:** Mahabubabad (dist Mahabubabad) 12, Garla (dist Mahabubabad) 10, Malyal (dist Mahabubabad) 10, Kalwakurthy (dist Nagarkurnool) 10, Ghattu (dist Jogulamba Gadwal) 10, Bayyaram (dist Mahabubabad) 9, Shekpet (dist Hyderabad) 9, Yellandu (dist B. Kothagudem) 9, Suryapet (dist Suryapet) 8, Jajireddigudem (dist Suryapet) 8, Mothey (dist Suryapet) 7, Zaffergadh (dist Jangaon) 7, Palakurthi (dist Jangaon) 7, Yellandu(arg) (dist B. Kothagudem) 7, Hasanparthy (dist Hanumakonda) 7;
- ❖ **Kerala:** Kudulu (Kasaragod district) 8, Taliparamba (Kannur district), Poonjar AWS (Kottayam district), Ayyankunnu AWS & Panniyoor ARG (both in Kannur district) 7 each, Thiruvananthapuram, Aruvikkara AWS & Perumkadavila ARG (Thiruvananthapuram district) & Thodupuzha ARG (Idukki district) 6 each, Thiruvananthapuram Airport, Neyyattinkara (Thiruvananthapuram district) & Adakkaputhur AWS (Palakkad district) 5 each;
- ❖ **Tamil Nadu:** Mylaudy (dist Kanniyakumari) 7, Thiruchendur AWS (dist Thoothukudi), Valparai PTO (dist Coimbatore), Nannilam (dist Thiruvavur) 6 each, Cuddalore Collector Office (dist Cuddalore), Kottaram (dist Kanniyakumari), Upasi Tea research Foundation AWS 5 each, Kayalpattinam (dist Thoothukudi), Sivalogam - Chittar II (dist Kanyakumari) 4;
- ❖ **Karnataka:** Puttur Hms (dist Dakshina Kannada) 7, Bhagamandala (dist Kodagu) 7, Kammardi (dist Chikkamagaluru) 7, Konanur (dist Hassan) 7; Shiggaon (dist Haveri) 6, Raichur Pto (dist Raichur) 6, Gokak (dist Belagavi) 5.



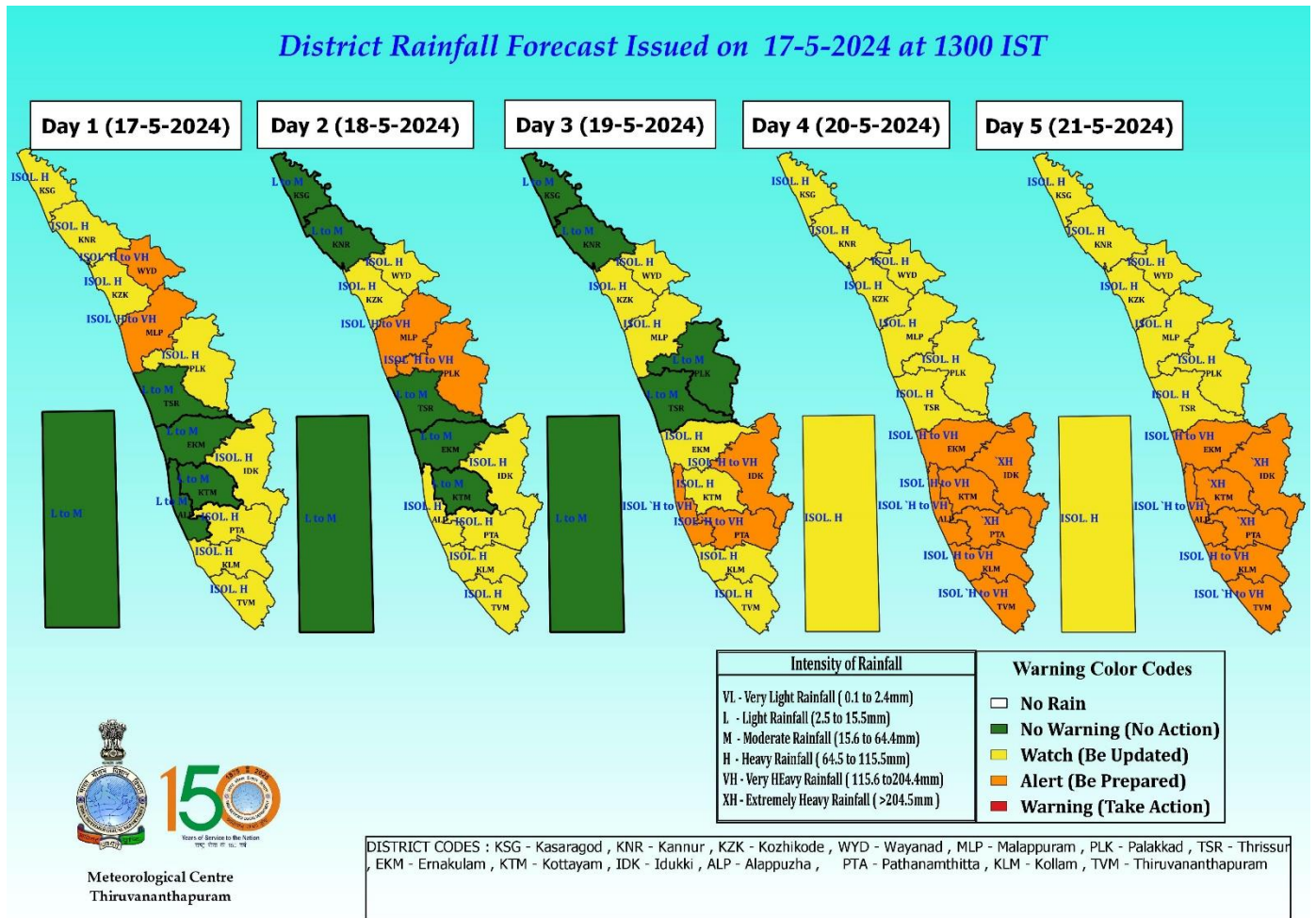


District wise Rainfall and warning Forecast for Tamil Nadu, Puducherry & Karaikal during next 5 days:





## District wise Rainfall and warning Forecast for Kerala during next 5 days:



**IMPACT & ACTION SUGGESTED due to very heavy rainfall/extremely falls over Tamil Nadu, Puducherry & Karaikal during 17<sup>th</sup>-21<sup>st</sup>; Kerala & South Interior Karnataka during 18<sup>th</sup>-21<sup>st</sup> May 2024.**

### 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 & abbreviations:

- ❖ **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office.
- ❖ **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 Marathawada.
  - **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)



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













## LEGENDS

### WARNING

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

### Probabilistic Forecast

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

 <b>Rain/ Snow *</b>	Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *
 <b>Heat Wave</b>	When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions <b>(a) Based on Departure from normal</b> Heat Wave: Maximum Temperature Departure from normal $4.5^{\circ}\text{C}$ to $6.4^{\circ}\text{C}$ . Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$ <b>(b). Based on Actual maximum temperature</b> Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$ . Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$ <b>(c). Criteria for heat wave for coastal stations</b> When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$
 <b>Warm Night</b>	When maximum temperature remains $40^{\circ}\text{C}$ Warm Night: When minimum temperature departure $4.5^{\circ}\text{C}$ to $6.4^{\circ}\text{C}$ . Severe Warm Night: When minimum temperature departure $> 6.4^{\circ}\text{C}$ .
 <b>Cold Wave</b>	When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions. <b>(a). Based on departure</b> Cold Wave: Minimum Temperature Departure from normal $-4.5^{\circ}\text{C}$ to $-6.4^{\circ}\text{C}$ . Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$ <b>(b) Based on actual Minimum Temperature (for Plains only)</b> Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$ Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$ <b>(c) For Coastal Stations</b> When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$
 <b>Cold Day</b>	When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions <b>Based on departure</b> Cold Day: Maximum Temperature Departure from normal $-4.5^{\circ}\text{C}$ to $-6.4^{\circ}\text{C}$ . Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$
 <b>Fog</b>	<b>Phenomenon of small droplets suspended in air and the horizontal visibility &lt; 1km</b> Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres
 <b>Thunderstorm</b>	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
 <b>Dust/Sand Storm</b>	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
 <b>Frost</b>	<b>Ice deposits on ground</b> Air temperature $\leq 4^{\circ}\text{C}$ ( over Plains)
 <b>Squall</b>	<b>A strong wind that rises suddenly, lasts for atleast 1 minute.</b> Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed $> 87$ kmph
 <b>Sea State</b>	<b>Effect of various waves in the sea over specific area</b> Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre Phenomenal: Wind speed $> 117$ kmph ( $> 63$ knots) & Wave height $> 14$ metre
 <b>Cyclone</b>	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots) Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) Super Cyclone Strom: Wind speed $> 220$ kmph ( $> 119$ knots)