



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 01st April, 2024

Time of Issue: 1340 hours IST

Subject: i) Enhanced rainfall/thunderstorm activity likely to continue over Northeast India till 07th April, 2024.

ii) Heat wave conditions likely to prevail over parts of central & peninsular India during 03rd-05th April, 2024.

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

- ❖ A **tornado** occurred at Jalpaiguri district of West Bengal around 03:30 PM lasting for about 10 minutes.
- ❖ **Hailstorm** recorded at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Odisha.
- ❖ **Thundersquall** recorded at isolated places over Assam.
- ❖ **Light/Moderate rainfall/snowfall** accompanied with **thunderstorm** occurred at most places over Arunachal Pradesh; at a few places over Sikkim. **Light rainfall/snowfall** occurred at a few places over Himachal Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand.
- ❖ **Light/Moderate rainfall** accompanied with **thunderstorm and gusty wind** occurred at most places over Assam & Meghalaya; at many places over Nagaland, Manipur, Mizoram & Tripura **with isolated heavy rainfall** over Arunachal Pradesh, Manipur and Meghalaya. **Light rainfall** occurred at isolated places over Odisha, Jharkhand, Bihar, Uttar Pradesh, Tamil Nadu and Kerala.

Weather Systems and Forecast & Warnings: (Annexure II)

- ❖ Two Western Disturbances are likely to affect Western Himalayan region, 1st from the night of 02nd and 2nd from 05th April, 2024. Under their influence:
 - ✓ Isolated to scattered light to moderate rainfall/snowfall very likely over Western Himalayan Region during next 7 days and isolated light to moderate rainfall over adjoining plains of Northwest India during 03rd-05th April, 2024.
 - ✓ Isolated **thunderstorms & lightning** also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh during 03rd-05th; over Uttarakhand on 03rd & 05th and West Uttar Pradesh on 04th & 05th April, 2024.
- ❖ A cyclonic circulation lies over northeast Assam and another over northeast Bihar in lower tropospheric levels. There is high moisture incursion from Bay of Bengal to northeastern states in lower tropospheric levels. Under the influence of these systems:
 - ✓ Isolated to Scattered light/moderate rainfall very likely over Sub-Himalayan West Bengal & Sikkim during next 7 days with isolated **thunderstorms & lightning** during 01st-03rd April and with **hailstorms** activity also likely on 01st April, 2024.

- ✓ Fairly widespread to widespread light/moderate rainfall/snowfall with isolated **thunderstorms & lightning very likely** over Arunachal Pradesh; scattered to fairly widespread light to moderate rainfall over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 01st - 05th April, 2024.
- ✓ *Isolated heavy rainfall/snowfall very likely over Arunachal Pradesh during 01st-05th April with isolated very heavy rainfall/snowfall on 01st April, 2024.*
- ✓ *Isolated heavy rainfall over Assam & Meghalaya during 01st-02nd & 04th and Nagaland, Manipur on 01st April.*

- ❖ A trough/wind discontinuity runs from south Tamil Nadu to southeast Madhya Pradesh across interior Karnataka and Vidarbha in lower tropospheric levels. Under its influence; Isolated light rainfall likely over Konkan & Goa, Madhya Maharashtra, Marathwada during 05th - 07th April; over Coastal Andhra Pradesh & Yanam, Telangana, Karnataka on 06th & 07th April, 2024

Maximum temperature observation and forecast for next 5 days:

- ❖ Yesterday, Maximum temperatures are in the range of 40-42°C at a few places over Rayalaseema and at isolated pockets over West Madhya Pradesh, Gangetic West Bengal, Jharkhand, Chhattisgarh, Vidarbha, Telangana, Coastal Andhra Pradesh & Yanam and Madhya Maharashtra.
- ❖ Today, minimum temperatures are **above normal by 3-5°C** at many places over East Uttar Pradesh, Madhya Maharashtra; at a few places over Bihar; at isolated places over Odisha.
- ❖ No significant change in maximum temperatures very likely over many parts of Northwest India during next 24 hours and rise by 2-4°C thereafter.
- ❖ Gradual rise in maximum temperatures by 2-3°C very likely over many parts of central and East India during next 3 days and no significant change thereafter.
- ❖ Gradual rise in maximum temperatures by 2-3°C very likely over many parts of Maharashtra during next 4 days and no significant change in maximum temperatures over rest parts of west India during next 5 days.
- ❖ No significant change in maximum temperatures very likely over many parts of south peninsular India during next 5 days except parts of Telangana & Rayalaseema where temperatures are likely to rise by 2-3°C during next 5 days.
- ❖ No significant change in maximum temperatures over rest parts of the country during next 5 days.

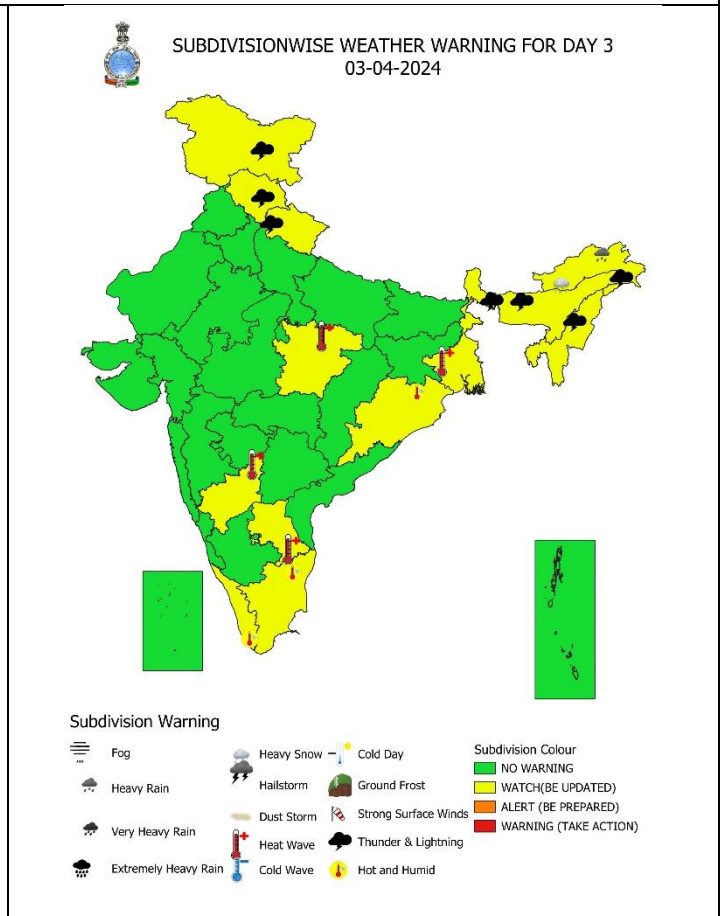
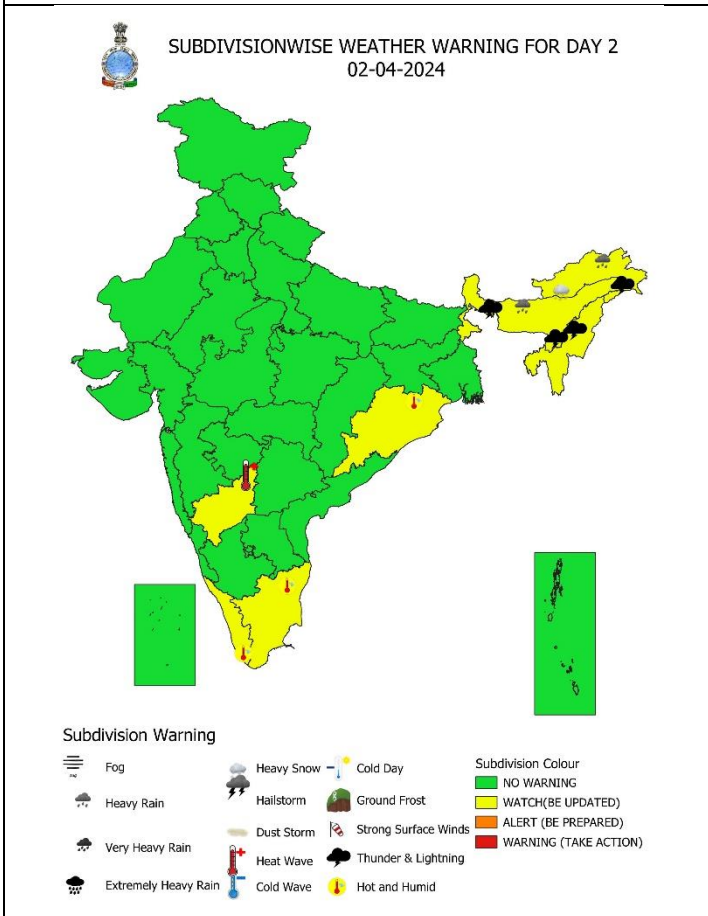
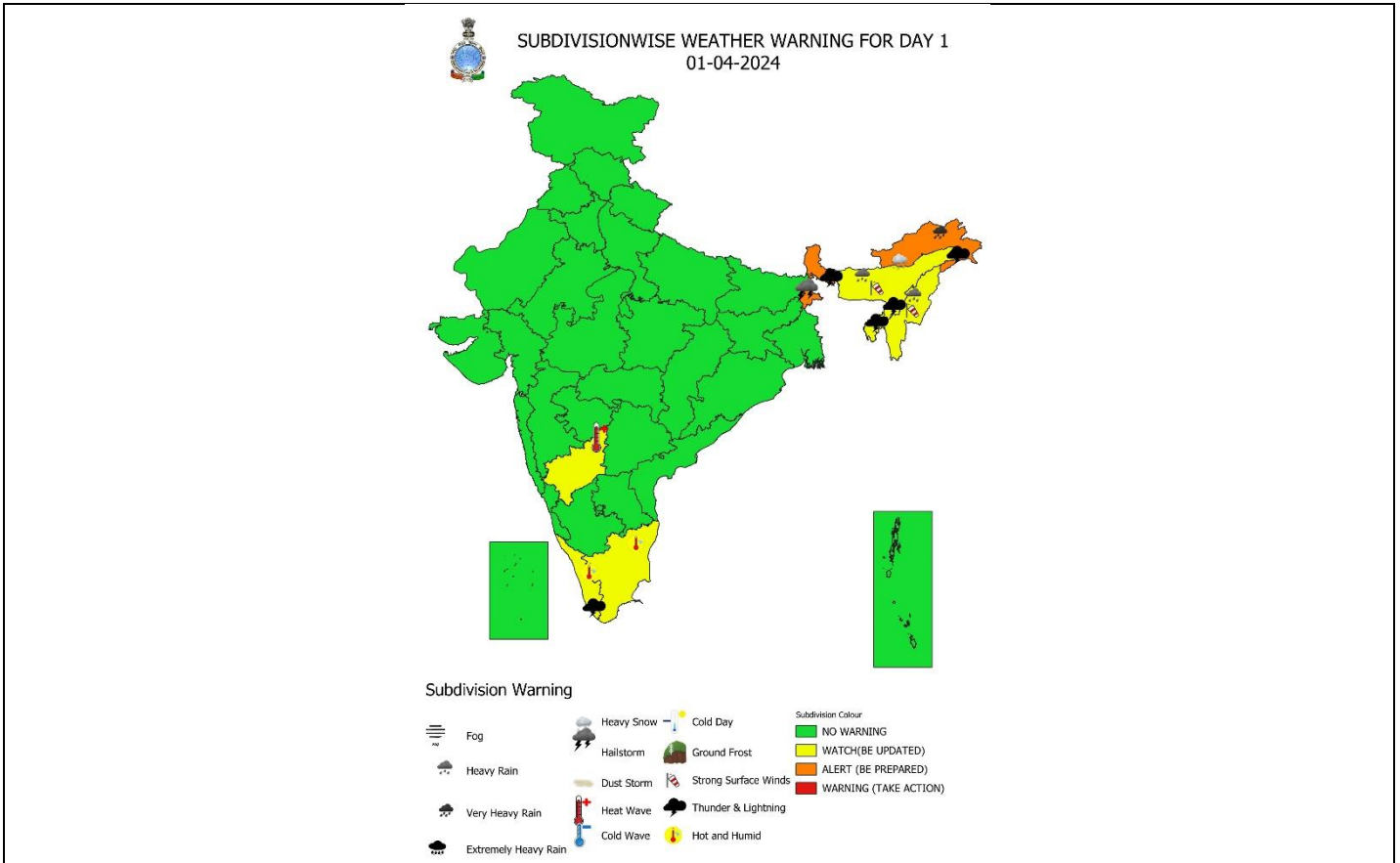
Heat wave, Warm Night and Hot & Humid weather warning for next 5 days:

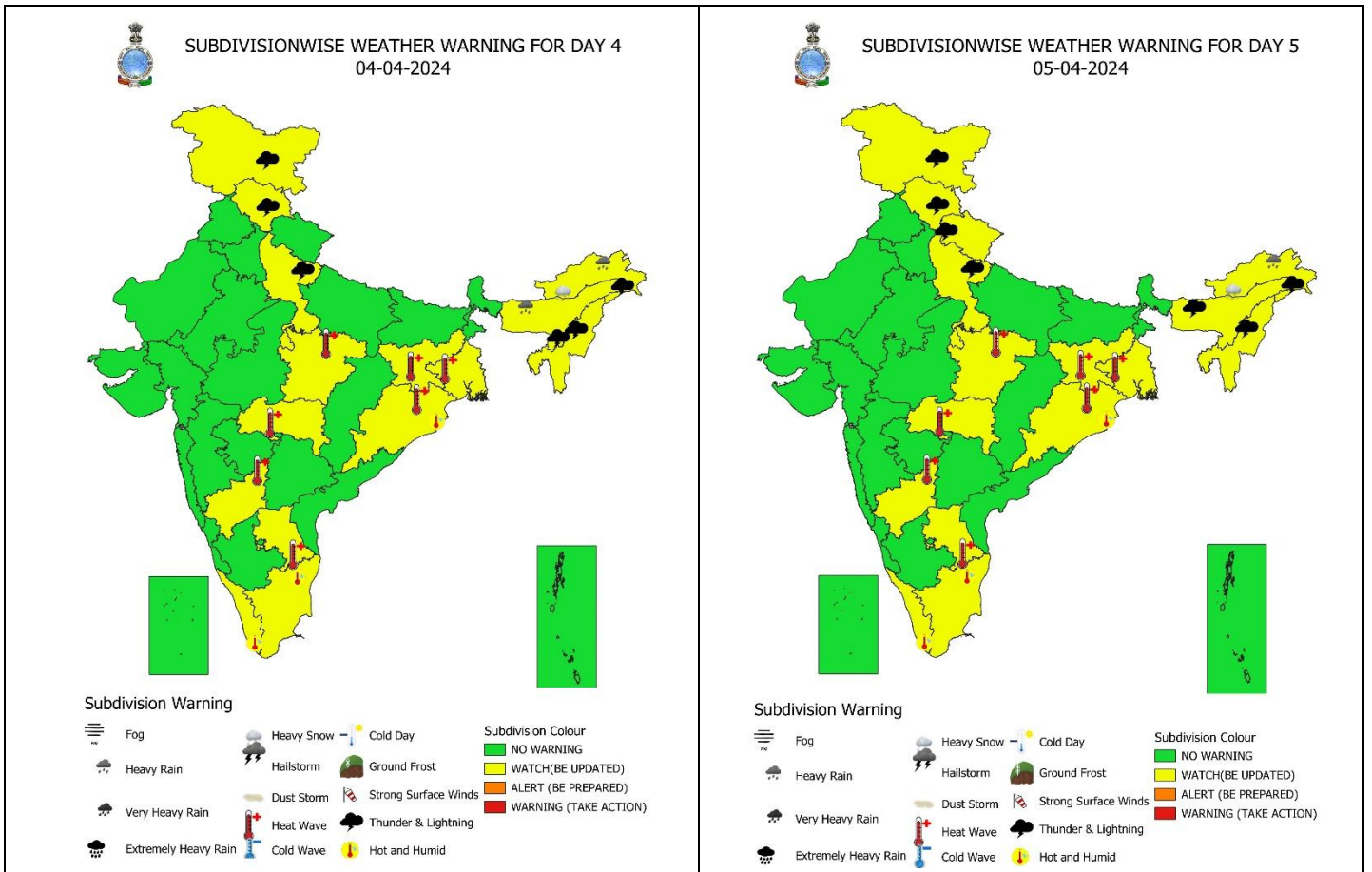
- ❖ **Heat wave conditions** very likely in isolated pockets over North Interior Karnataka during 01st - 05th; Rayalaseema, East Madhya Pradesh & Gangetic West Bengal during 03rd - 05th; over Vidarbha & Jharkhand on 04th & 05th April, 2024.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Madhya Maharashtra & Marathwada on 01st & 02nd; over Odisha during 02nd - 05th April, 2024.
- ❖ **Hot and humid weather** very likely to prevail over Kerala & Mahe & Tamil Nadu, Puducherry & Karaikal during 01st - 05th April; over Odisha during 02nd - 05th April, 2024.
- ❖ Yesterday, the maximum temperature exceeded 95th percentile at a few places over Uttar Pradesh and at isolated places over Uttarakhand, Bihar, Jharkhand, Madhya Pradesh, Telangana, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Marathwada. Maximum temperature likely to exceeded 95th percentile over parts of Rayalaseema, Karnataka, Marathwada and Odisha till 4th April, over Chhattisgarh, Jharkhand, East Madhya Pradesh and Vidarbha from 4th April onward and over north Tamil Nadu from 3rd April, 2024.

For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

Significant amount of rainfall (in cm):

- ❖ **Assam & Meghalaya:** Sohra-11; Cherrapunji (dist East Khasi Hills) 8, Cherrapunji(rkm) (dist East Khasi Hills) 8, Dudhnoi Arg (dist Goalpara) 7, Dhemaji (dist Dhemaji) 6, Mawsynram (dist East Khasi Hills) 6, Matijuri (dist Hailakandi) 6, Guwahati_aws (dist Kamrup Metropolitan) 6, Guwahati Ap (dist Kamrup Metropolitan) 6, Badarpur Arg (dist Karimganj) 6, Amraghat (dist Cachar) 6, Aie Nh Xing (dist Bongaigaon) 5, Dholai (dist Cachar) 5, Barpeta (dist Barpeta) 5, Manikpur Arg (dist Bongaigaon) 5, Goibargaon (dist Baksa) 5, Manash Nh Xing (dist Barpeta) 5, Beky Rly.bridge (dist Barpeta) 5, Lakhipur (dist Cachar) 5, Goalpara_pto (dist Goalpara) 5, Silchar (dist Cachar) 5, Khowang (dist Dibrugarh) 5, Tinsukia (dist Tinsukia) 5, Lakhipur Arg (dist Cachar) 5, Fakiragram Arg (dist Kokrajhar) 5,
- ❖ **Arunachal Pradesh:** Dambuk, Hayuliang-8 each; Hawaii (dist Anjaw) 6, Namsai (dist Lohit) 5, Geku Arg (dist West Siang) 5, Naharlagun_Aws (dist Papumpara) 5, Miao (dist Changlang) 5, Pasighat_Aero (dist East Siang) 5, Naharlagun (dist Papumpara) 4, Namsai Kvk Aws (dist Lohit) 4,
- ❖ **Nagaland, Manipur, Mizoram & Tripura:** Jiribam_Aws (dist Imphal East) 7, Tamenglong (dist Tamenglong) 6, Mangkolemba (dist Mokokchung) 4,
- ❖ **Sub-Himalayan West Bengal & Sikkim:** Jalpaiguri-4





Impact & Action Suggested due to heavy/very heavy rainfall/snowfall over Arunachal Pradesh on 01st April, 2024.

Impacts Expected for Rain/Snow

- ❖ Disruption of Electricity.
- ❖ Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nallahs.
- ❖ Disruption of traffic flow.
- ❖ Damage to Kuccha and unsecured structures.

Suggested Actions

- ❖ Avoid roadway underpasses, drainage ditches, low lying areas and areas where water collects – they can unexpectedly flood or overflow.
- ❖ Stay away from power lines or electrical wires.
- ❖ Don't stay in kuchcha houses during heavy rainfall as it may collapse anytime soon.
- ❖ Drive carefully.

Impact expected and action suggested due to thunderstorm with lightning, gusty winds & Hailstorm:
over Sub-Himalayan West Bengal & Sikkim on 01st April,2024.

Impact expected:

- ❖ Strong wind/hail may damage plantation, horticulture and standing crops.
- ❖ Hail may injure people and cattle at open places.
- ❖ Partial damage to vulnerable structures due to strong winds.
- ❖ Minor damage to kutcha houses/walls and huts.
- ❖ Loose objects may fly.

Action suggested:

- ❖ Stay indoors, close windows & doors and avoid travel if possible.
- ❖ Take safe shelters; do not take shelter under trees.
- ❖ Do not lie on concrete floors and do not lean against concrete walls.
- ❖ Unplug electrical/ electronic appliances.
- ❖ Immediately get out of water bodies.
- ❖ Keep away from all the objects that conduct electricity.

Agromet advisories for Heavy Rainfall, Gusty winds, Hailstorm and Heat Wave likely over various parts of the country














(Based on the IBF and advisories issued by different AMFUs)

- ❖ Use hail nets or hail caps in fruit orchards to protect them from mechanical damage and provide mechanical support to horticultural crops & staking to vegetables in Sub-Himalayan West Bengal & Sikkim.
- ❖ Drain out excess water from crop fields to avoid water stagnation in North Eastern States. Also provide mechanical support to horticultural crops and staking to vegetables.
- ❖ Postpone fresh sowing of vegetables and other crops; cover the already-sown crops with farm residues or paddy straw in Arunachal Pradesh.
- ❖ Postpone sowing of Ahu rice, Capsularis jute and gourds in Assam.
- ❖ Apply light and frequent irrigation to standing crops in North Interior Karnataka to avoid heat stress.

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 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