

2026-03-13

Time of Issue: 08:21:00 hours IST
(Morning)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather systems, Forecast & Warnings:

Northwest India:

- **Fairly widespread** light to moderate rainfall/snowfall likely over Jammu-Kashmir-Ladakh and Himachal Pradesh on 12th and decrease to **isolated light rainfall/snowfall on 13th & 14th**; **increase to scattered to fairly widespread light to moderate rainfall/snowfall during 15th-18th**. **Isolated** light rainfall/snowfall also likely over Uttarakhand during 12th-14th March with **scattered to fairly widespread light to moderate rainfall/snowfall on 15th & 16th March**. **Thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Jammu-Kashmir-Ladakh, Himachal Pradesh on 12th, 15th & 16th and Uttarakhand on 12th & during 14th-16th March.
- **Isolated** light rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** also likely over Punjab on 12th & during 14th-17th; Haryana Chandigarh during 15th-17th; Uttar Pradesh on 15th & 16th; with **thunderstorm & lightning** over Rajasthan on 14th & 15th March.

Northeast India:

- **Fairly widespread to widespread** light/moderate rainfall with **thunderstorm & lightning** likely over Northeast India during 12th-18th March; with **gusty winds speed reaching (30-40 kmph)** over Arunachal Pradesh during 13th-15th; Assam & Meghalaya during 12th-15th and Nagaland, Manipur, Mizoram & Tripura on 13th March.
- **Isolated heavy rainfall/snowfall** very likely over Arunachal Pradesh during 12th-15th with **heavy to very heavy rainfall/snowfall** on 13th March.
- **Isolated heavy rainfall** over Assam & Meghalaya during 12th-15th; Nagaland, Manipur, Mizoram & Tripura on 16th & 17th March.

East & Central India:

- **Isolated to Scattered** light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Vidarbha & Chhattisgarh during 13th-16th; West Madhya Pradesh on 15th; East Madhya Pradesh on 15th & 16th; Sub-Himalayan West Bengal & Sikkim during 12th-16th; Gangetic West Bengal, Bihar on 12th & during 15th-17th; Jharkhand on 12th & during 15th-18th; Odisha on 12th, 15th & 16th March.
- **Isolated heavy rainfall** very likely over Sub-Himalayan West Bengal & Sikkim on 12th & 13th March.

South Peninsular India:

- **Isolated** light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Telangana on 15th & 16th; with **thunderstorm & lightning** over Coastal Andhra Pradesh & Yanam during 16th-18th; Rayalaseema on 17th & 18th March.

West India:

- **Isolated** light/moderate rainfall with **thunderstorm & lightning** likely over Madhya Maharashtra and Marathwada during 14th-17th March.

Forecast of maximum/day temperatures:

- No significant change in maximum temperatures likely over Western Himalayan region during next 24 hours; gradual rise by 3-5°C during subsequent 2 days and gradual fall by 3-5°C during subsequent 4 days.
- Gradual fall in maximum temperature by 2-3°C likely over plains of Northwest India during next 2 days and no significant change during subsequent 5 days except over Uttar Pradesh where no significant change in maximum temperatures likely during next 2 days and rise by 2°C during subsequent 2 days and gradual fall by

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2-3°C thereafter.

- No significant change in maximum temperatures likely over Central India during next 2 days and gradual fall by 3-5°C thereafter.
- No significant change in maximum temperatures likely over East India during next 24 hours; gradual rise by 2-3°C during subsequent 2 days and gradual fall by 2-3°C thereafter .
- Gradual fall in maximum temperature by 4-5°C likely over Northeast India during next 2 days and no significant change during subsequent 5 days.
- No significant change in maximum temperatures likely over Gujarat State during next 24 hours and gradual fall by 2-4°C during subsequent 6 days .
- No significant change in maximum temperatures likely over Maharashtra during next 3 days and gradual fall by 2-3°C during subsequent 4 days .
- No significant change in maximum temperatures likely over South Peninsular India during next 5 days.

Heat Wave, Hot & Humid weather and Warm Night Warnings:

- **Heat wave to severe heat wave conditions** very likely in some places over Saurashtra & Kutch on 12th and **heat wave conditions** in isolated pockets on 13th March. Isolated Heat Wave conditions likely over Gujarat region on 12th & 13th March.
- **Heat wave to severe heat wave conditions** very likely in isolated pockets over South west Madhya Pradesh on 12th & 13th March.
- **Heat wave conditions** in isolated pockets over Vidarbha on 12th; Himachal Pradesh and north Konkan on 13th & 14th March.
- **Hot & humid conditions** very likely to prevail in isolated pockets over coastal areas of Saurashtra & Kutch, Coastal Karnataka, Kerala & Mahe on 12th & 13th March and over Gujarat region during 12th-14th March.
- **Warm night conditions** very likely to prevail in isolated pockets over Saurashtra & Kutch on 12th & 13th and Gujarat Region on 12th March.

Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Assam & Meghalaya, Arunachal Pradesh, Sub-himalayan West Bengal & Sikkim and Jammu & Kashmir and Ladakh; **at many places** over Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Arunachal Pradesh:** Itanagar (dist Papum Pare) 1; **Assam & Meghalaya:** North Lakhimpur (dist Lakhimpur) 1; Jammu & Kashmir And Ladakh: Kukernag, Pahalgam (dist Anantnag), Bhaderwah (dist Doda) 1 Each.

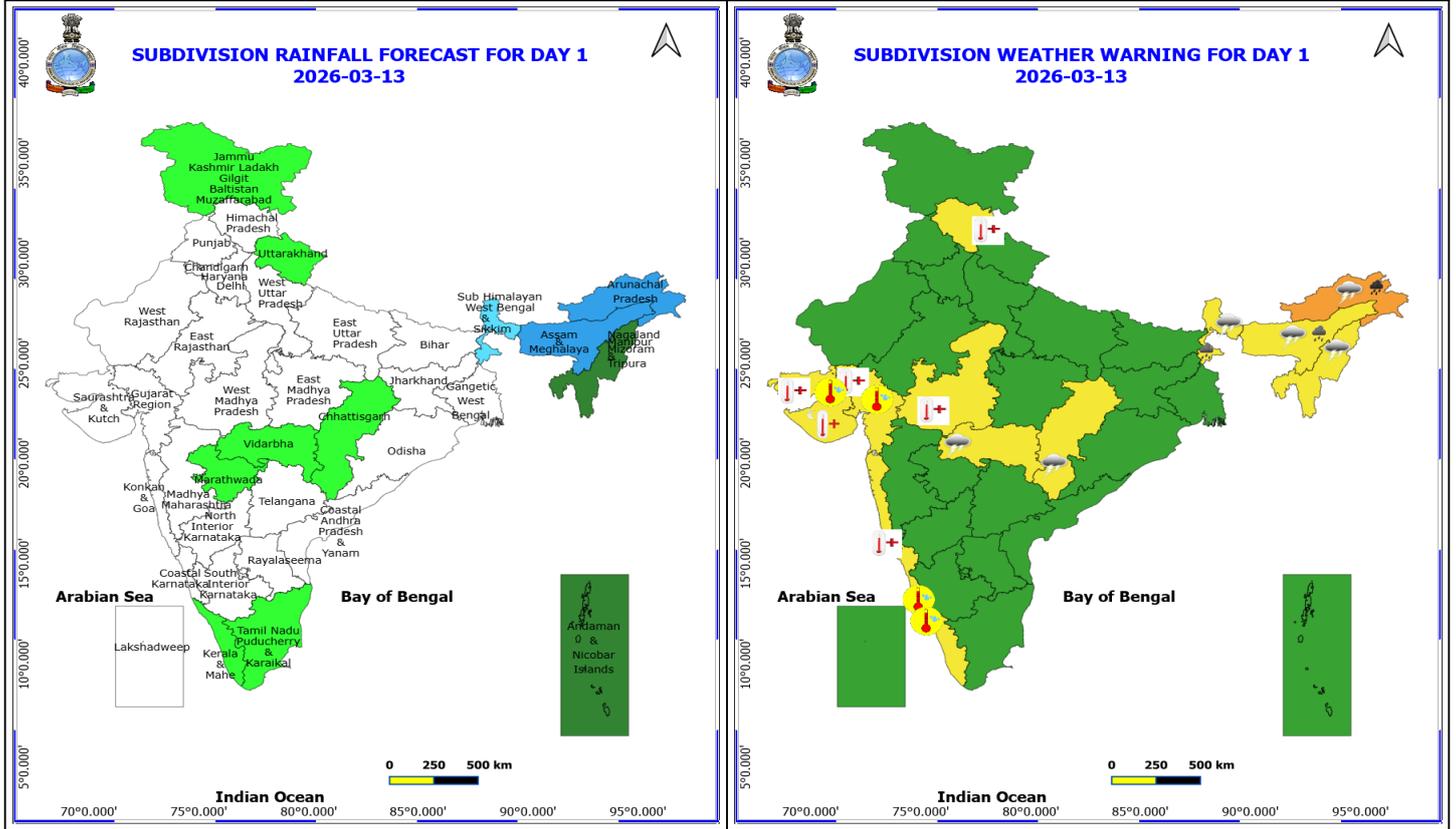
❖ **Minimum Temperature Departures (as on 12-03-2026):** **markedly above normal (> 5.1°C)** over Himachal Pradesh, Punjab, Bihar; **appreciably above normal (3.1°C to 5.0°C)** over Jammu-Kashmir, Uttarakhand, Haryana, Chandigarh & Delhi, West Rajasthan, Uttar Pradesh, West Madhya Pradesh, Gujarat Region, West Bengal & Sikkim, Assam & Meghalaya; **above normal(1.6°C to 3.0°C)** over Jharkhand, Odisha, Saurashtra & Kutch, East Madhya Pradesh, Maharashtra, **and below normal (-3.0°C to -1.6°C)** at isolated places over Chhattisgarh, South Interior Karnataka, Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 13.7°C was observed at Ambikapur (Chhattisgarh) over the plains of India.

❖ **Maximum Temperature Departures (as on 12-03-2026):** **Markedly above normal (> 5.1°C)** at few places over Haryana-Chandigarh-Delhi, Punjab; at isolated places over Uttar Pradesh, East Rajasthan, Vidarbha; **Appreciably above normal (3.1°C to 5.0°C)** at most places over East Madhya Pradesh, Gujarat state; at many places over West Madhya Pradesh; at few places over Marathwada, Madhya Maharashtra, Konkan & Goa, West Rajasthan; at isolated places over Chhattisgarh, Telangana, Odisha, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **above normal (1.6°C to 3.0°C)** at a few places over Coastal Andhra Pradesh & Yanam, Bihar, Jharkhand; at isolated places over Rayalaseema, North Interior Karnataka.

Maximum Temperatures are in the range of **38-42°C** at many places over Gujarat state, Vidarbha, Odisha, Rayalaseema, Marathwada; at a few places over Madhya Maharashtra, Telangana, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Madhya Pradesh; at isolated places over Tamil Nadu, Puducherry & Karaikal, Konkan & Goa, East Rajasthan; **35-38°C** at many places East Uttar Pradesh; at a few places over West Rajasthan, Kerala & Mahe; at isolated places over North Interior Karnataka, Telangana, Delhi. **Today, the highest maximum temperature of 42.2°C is reported at Amravati (Vidarbha).**

Meteorological Analysis (Based on 0530 hours IST)

- The **Western Disturbance** as a trough in middle level tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 74°E to the north of Lat. 34°N.
- The **upper air cyclonic circulation** over Central Assam & neighbourhood persists and extends upto 1.5 km above mean sea level.
- The **upper air cyclonic circulation** over Comorin area & neighbourhood now lies over Lakshadweep and adjoining Comorian area at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over Bangladesh and adjoining Gangetic West Bengal extending upto 1.5 km above mean sea level with trough aloft in lower level westerlies with its axis between 3.1 & 4.5 km above mean sea level roughly along Long. 90°E to the north of Lat. 22°N persists.
- A **trough** runs from Northeast Bihar to South Odisha across Jharkhand at 0.9 km above mean sea level.
- **Subtropical westerly Jet Stream** with core winds of the order of 90 knots at 12.6 km above mean sea level prevails over Northwest India.
- An **upper air cyclonic circulation** lies over Gulf of Mannar & neighbourhood upto 1.5 km above mean sea level.
- A **fresh Western Disturbance** is likely to affect Northwest India from 14th March 2026.



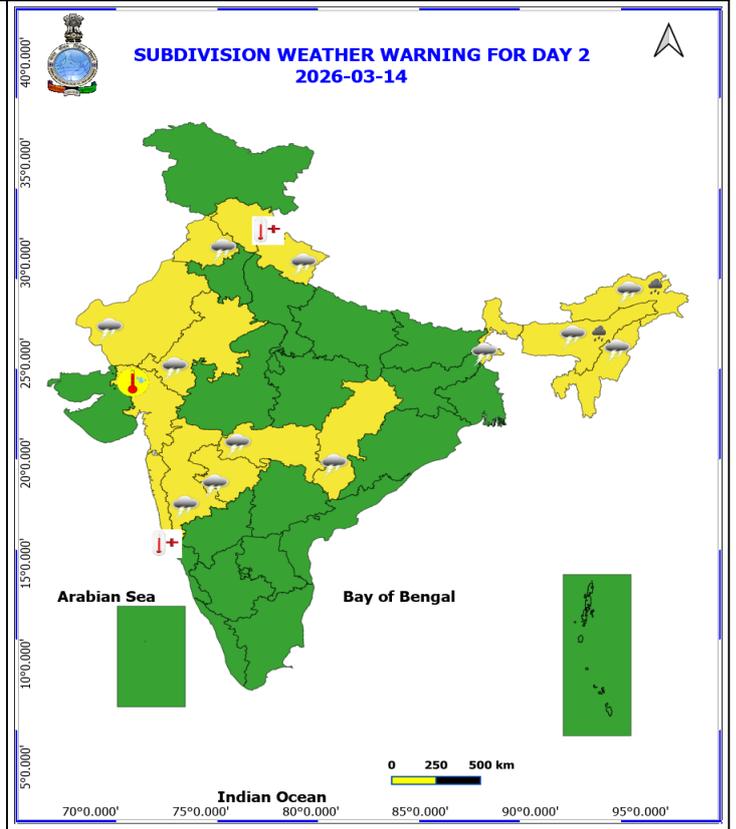
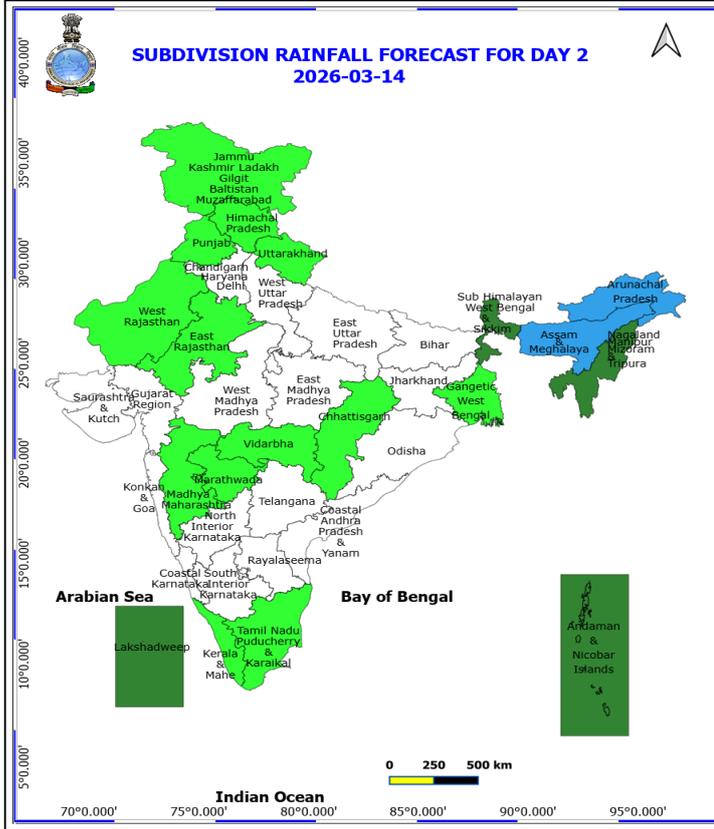
13 March (Day 1)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Arunachal Pradesh.
- ❖ **Heavy Rainfall** very likely at isolated places over Assam & Meghalaya and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Arunachal Pradesh, Chhattisgarh, Nagaland, Manipur, Mizoram and Tripura, Sub Himalayan West Bengal & Sikkim and Vidarbha.
- ❖ **Heat Wave conditions** very likely at isolated places over Gujarat State, Himachal Pradesh and Konkan & Goa.
- ❖ **Heat Wave to Severe Heat Wave conditions** very likely at isolated places over West Madhya Pradesh.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Karnataka, Gujarat State and Kerala & Mahe.
- ❖ **Warm Night conditions** very likely at isolated places over Saurashtra & Kutch.

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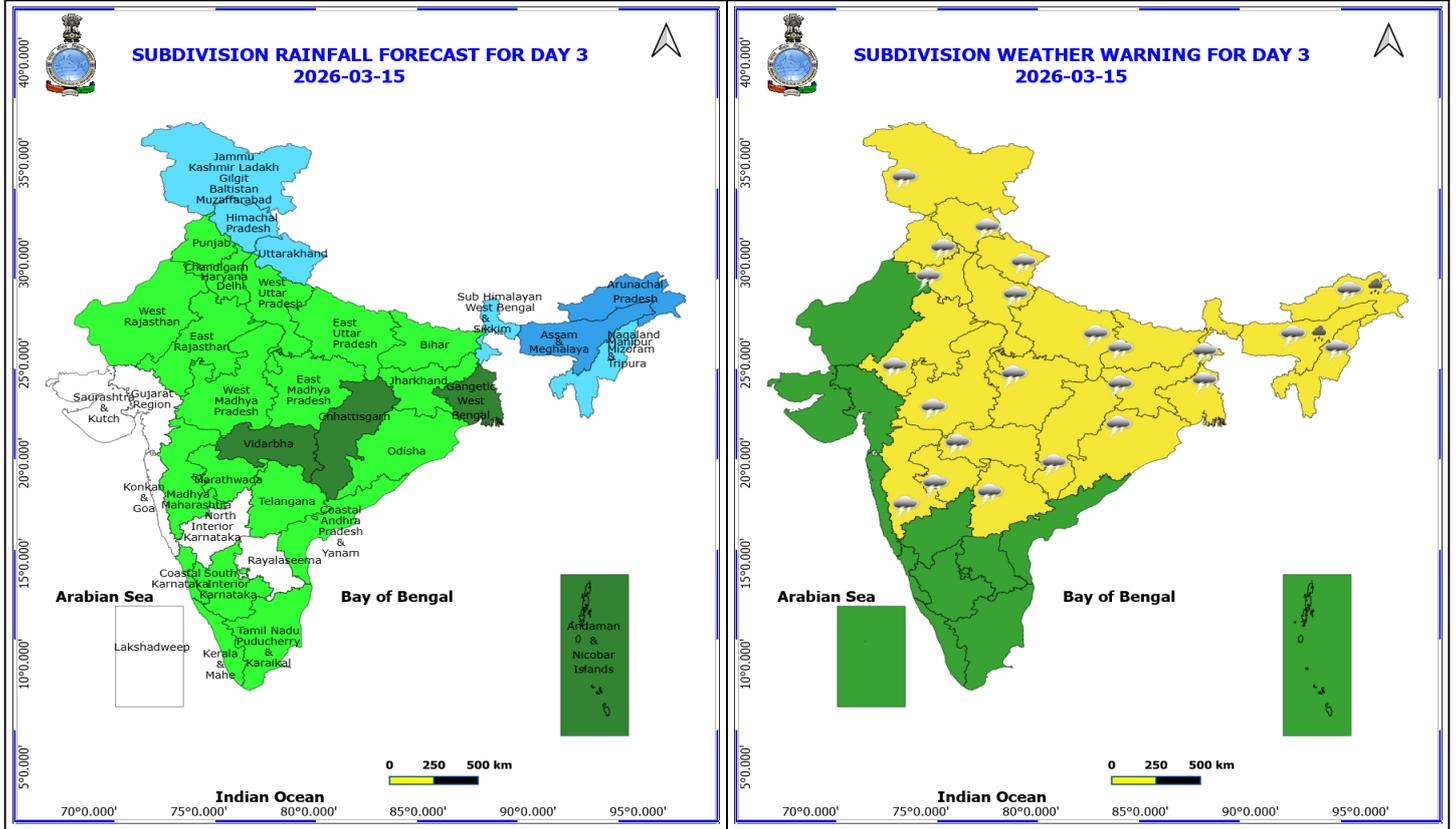
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14 March (Day 2)

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Chhattisgarh and Vidharbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Punjab, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Madhya Maharashtra, Marathwada, Nagaland, Manipur, Mizoram and Tripura and Rajasthan.
- ❖ **Heat Wave conditions** very likely at isolated places over Himachal Pradesh and Konkan & Goa.
- ❖ **Hot and Humid weather** very likely at isolated places over Gujarat Region.

No Fishermen Warning

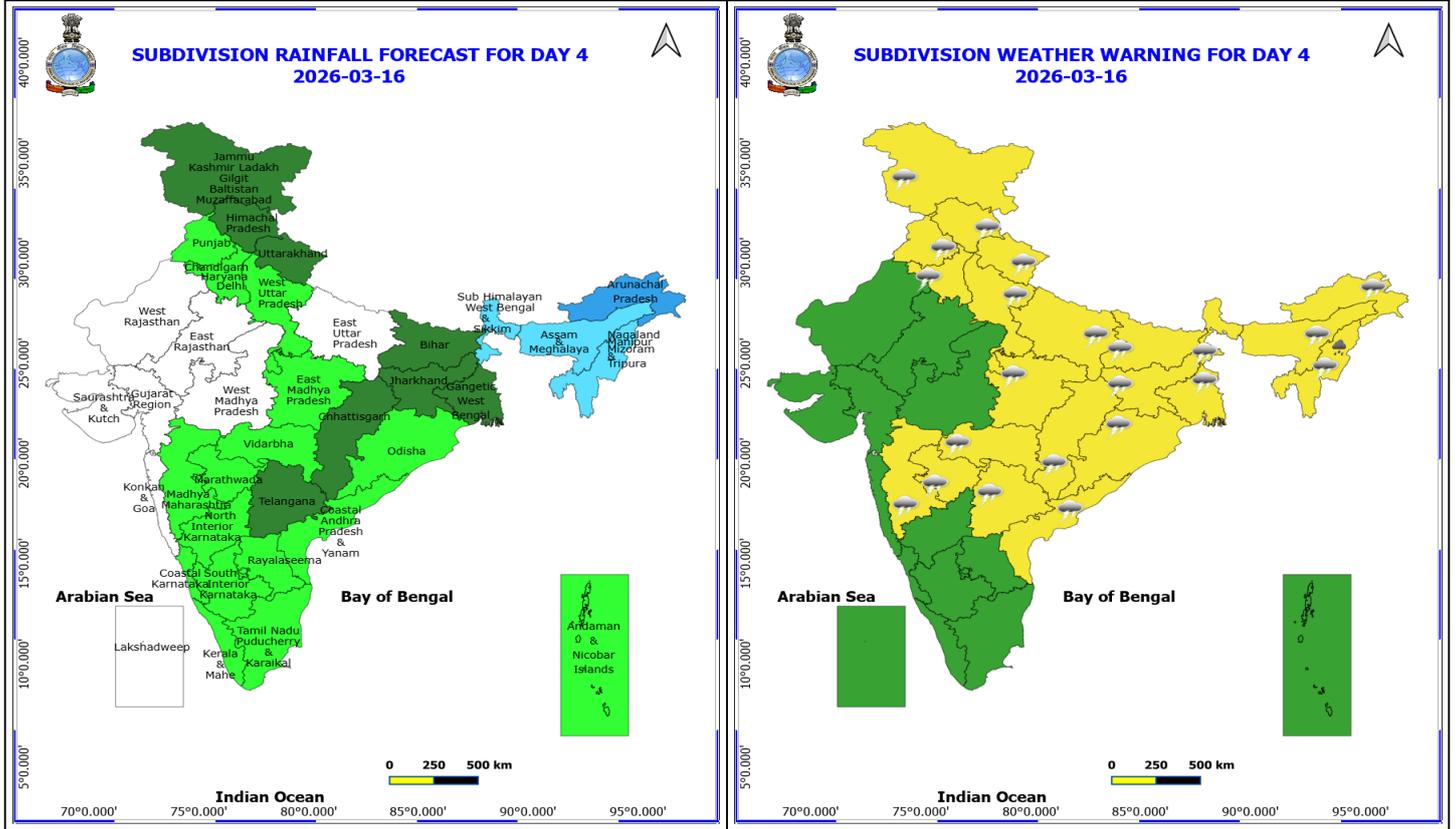


15 March (Day 3)

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Chhattisgarh, East Madhya Pradesh, East Uttar Pradesh, Gangetic West Bengal, Himachal Pradesh, Jharkhand, Uttarakhand and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha, Punjab, Sub Himalayan West Bengal & Sikkim, Telangana, West Madhya Pradesh and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over East Rajasthan, Madhya Maharashtra, Marathwada and Nagaland, Manipur, Mizoram and Tripura.

No Fishermen Warning

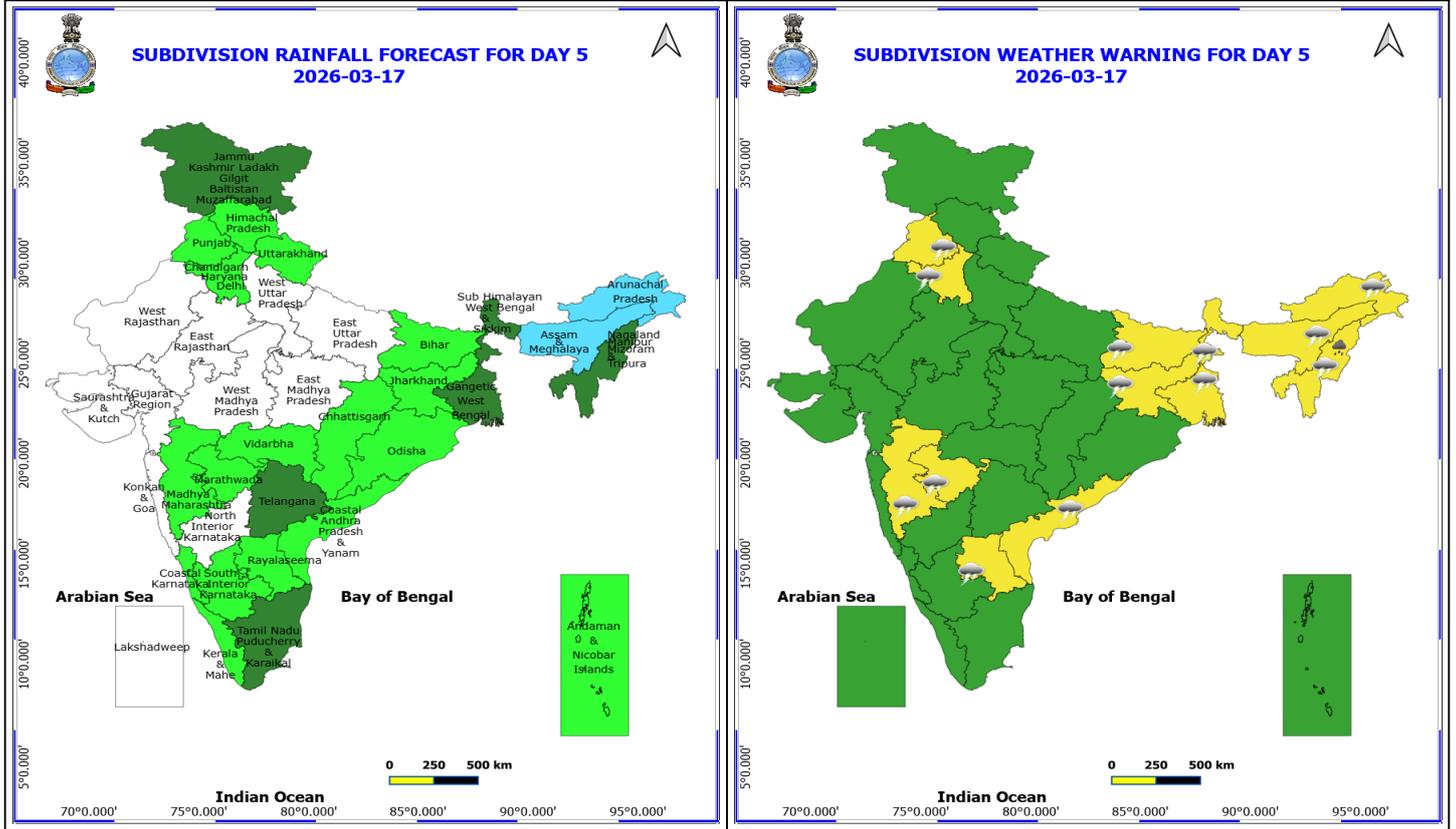
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16 March (Day 4)

- ❖ **Heavy Rainfall** likely at isolated places over Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Bihar, East Madhya Pradesh, East Uttar Pradesh, Gangetic West Bengal, Himachal Pradesh, Jharkhand, Uttarakhand and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Chhattisgarh, Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha, Punjab, Sub Himalayan West Bengal & Sikkim, Telangana and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh, Madhya Maharashtra, Marathwada and Nagaland, Manipur, Mizoram and Tripura.

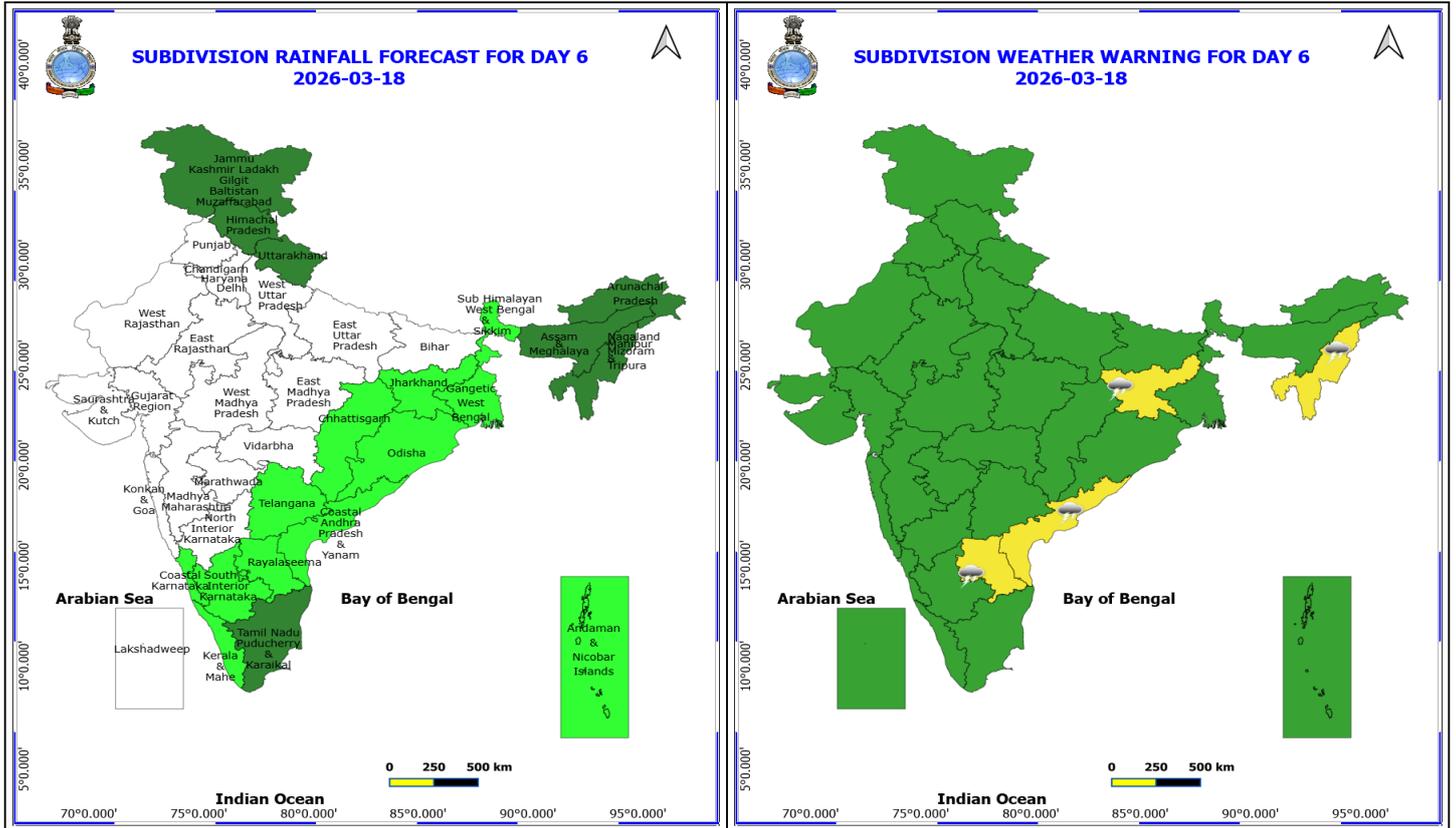
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17 March (Day 5)

- ❖ **Heavy Rainfall** likely at isolated places over Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jharkhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Gangetic West Bengal, Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Nagaland, Manipur, Mizoram and Tripura and Sub Himalayan West Bengal & Sikkim.

No Fishermen Warning

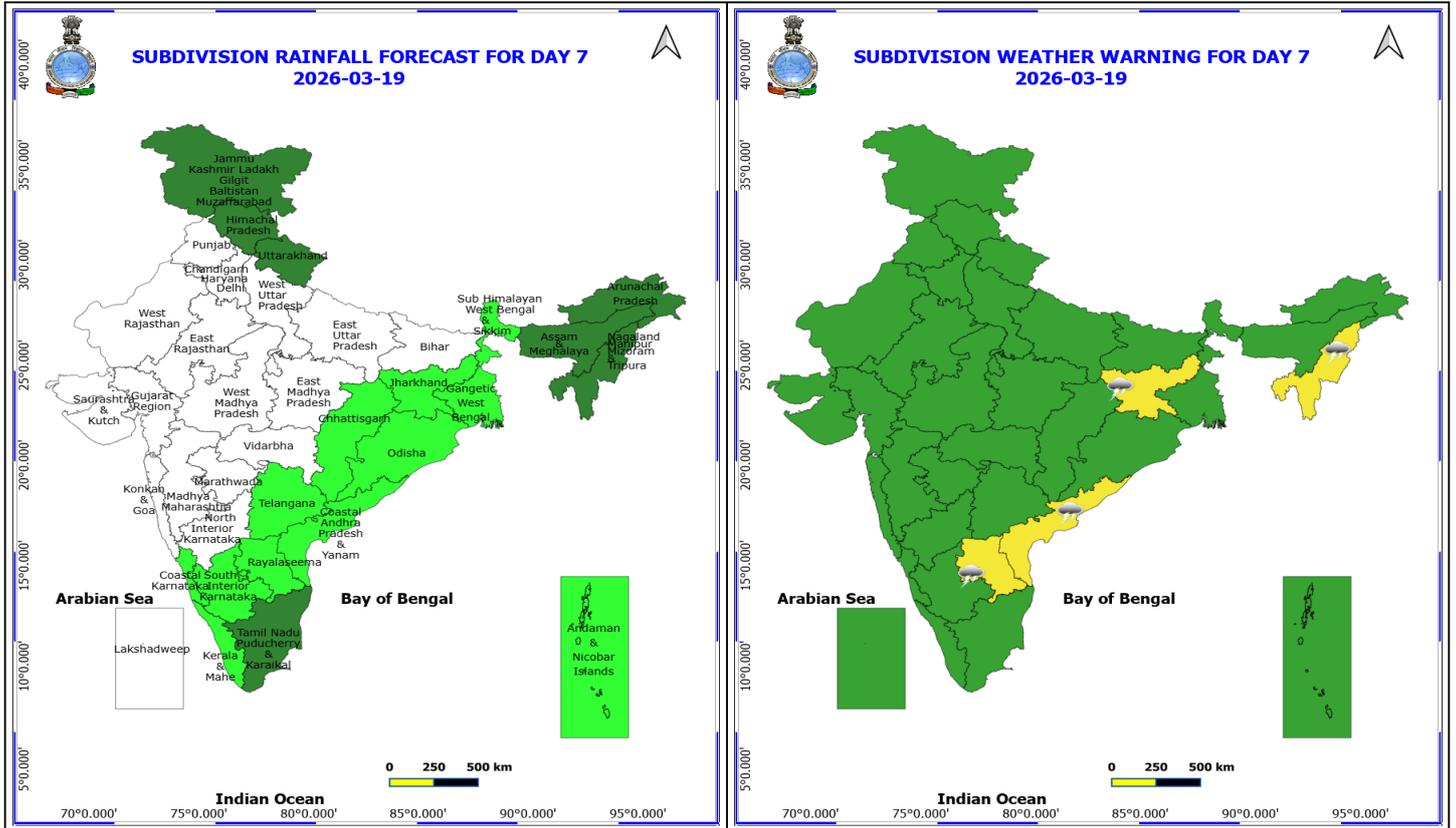


18 March (Day 6)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Jharkhand.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh and Nagaland, Manipur, Mizoram and Tripura.

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19 March (Day 7)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Jharkhand.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh and Nagaland, Manipur, Mizoram and Tripura.

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Table-1

7 Days Rainfall Forecast

| S.No. | Subdivision | 13-Mar | 14-Mar | 15-Mar | 16-Mar | 17-Mar | 18-Mar | 19-Mar |
|-------|------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 |
| 1 | ANDAMAN & NICOBAR ISLANDS | SCT | SCT | SCT | ISOL | ISOL | ISOL | ISOL |
| 2 | ARUNACHAL PRADESH | WS | WS | WS | WS | FWS | SCT | SCT |
| 3 | ASSAM & MEHGHALAYA | WS | WS | WS | FWS | FWS | SCT | SCT |
| 4 | N. M. M. & T. | SCT | SCT | FWS | FWS | SCT | SCT | SCT |
| 5 | S.H. WEST BENGAL & SIKKIM | FWS | SCT | FWS | FWS | SCT | ISOL | ISOL |
| 6 | GANGETIC WEST BENGAL | DRY | ISOL | SCT | SCT | SCT | ISOL | ISOL |
| 7 | ODISHA | DRY | DRY | ISOL | ISOL | ISOL | ISOL | ISOL |
| 8 | JHARKHAND | DRY | DRY | ISOL | SCT | ISOL | ISOL | ISOL |
| 9 | BIHAR | DRY | DRY | ISOL | SCT | ISOL | DRY | DRY |
| 10 | EAST UTTAR PRADESH | DRY | DRY | ISOL | DRY | DRY | DRY | DRY |
| 11 | WEST UTTAR PRADESH | DRY | DRY | ISOL | ISOL | DRY | DRY | DRY |
| 12 | UTTARAKHAND | ISOL | ISOL | FWS | SCT | ISOL | SCT | SCT |
| 13 | HARYANA, CHD & DELHI | DRY | DRY | ISOL | ISOL | ISOL | DRY | DRY |
| 14 | PUNJAB | DRY | ISOL | ISOL | ISOL | ISOL | DRY | DRY |
| 15 | HIMACHAL PRADESH | DRY | ISOL | FWS | SCT | ISOL | SCT | SCT |
| 16 | JAMMU AND KASHMIR AND LADAKH | ISOL | ISOL | FWS | SCT | SCT | SCT | SCT |
| 17 | WEST RAJASTHAN | DRY | ISOL | ISOL | DRY | DRY | DRY | DRY |
| 18 | EAST RAJASTHAN | DRY | ISOL | ISOL | DRY | DRY | DRY | DRY |
| 19 | WEST MADHYA PRADESH | DRY | DRY | ISOL | DRY | DRY | DRY | DRY |
| 20 | EAST MADHYA PRADESH | DRY | DRY | ISOL | ISOL | DRY | DRY | DRY |
| 21 | GUJRAT REGION | DRY |
| 22 | SAURASHTRA & KUTCH | DRY |
| 23 | KONKAN & GOA | DRY |
| 24 | MADHYA MAHARASHTRA | DRY | ISOL | ISOL | ISOL | ISOL | DRY | DRY |
| 25 | MARATHWADA | ISOL | ISOL | ISOL | ISOL | ISOL | DRY | DRY |
| 26 | VIDARBHA | ISOL | ISOL | SCT | ISOL | ISOL | DRY | DRY |
| 27 | CHATTISGARH | ISOL | ISOL | SCT | SCT | ISOL | ISOL | ISOL |
| 28 | COASTAL ANDHRA PRADESH | DRY | DRY | ISOL | ISOL | ISOL | ISOL | ISOL |
| 29 | TELANGANA | DRY | DRY | ISOL | SCT | SCT | ISOL | ISOL |
| 30 | RAYALASEEMA | DRY | DRY | DRY | ISOL | ISOL | ISOL | ISOL |
| 31 | TAMILNADU & PUDUCHERRY | ISOL | ISOL | ISOL | ISOL | SCT | SCT | SCT |
| 32 | COSTAL KARNATAKA | DRY | DRY | ISOL | ISOL | ISOL | ISOL | ISOL |
| 33 | NORTH INTERIOR KARNATAKA | DRY | DRY | DRY | ISOL | DRY | DRY | DRY |
| 34 | SOUTH INTERIOR KARNATAKA | DRY | DRY | ISOL | ISOL | ISOL | ISOL | ISOL |
| 35 | KERALA | ISOL |
| 36 | LAKSHDWEEP | DRY | SCT | DRY | DRY | DRY | DRY | DRY |

| Legend | Category | %Stations |
|--------|-------------------------------|-----------|
| WS | Widespread/Most Places | 76-100 |
| FWS | Fairly Widespread/Many Places | 51-75 |
| SCT | Scattered/ A Few Places | 26-50 |
| ISOL | Isolated Places | 1-25 |
| DRY | No Rain | 0 |

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Fig. 1: Maximum Temperatures Dated 2026-03-12

Fig. 2: Departure of Maximum Temp. Dated 2026-03-12

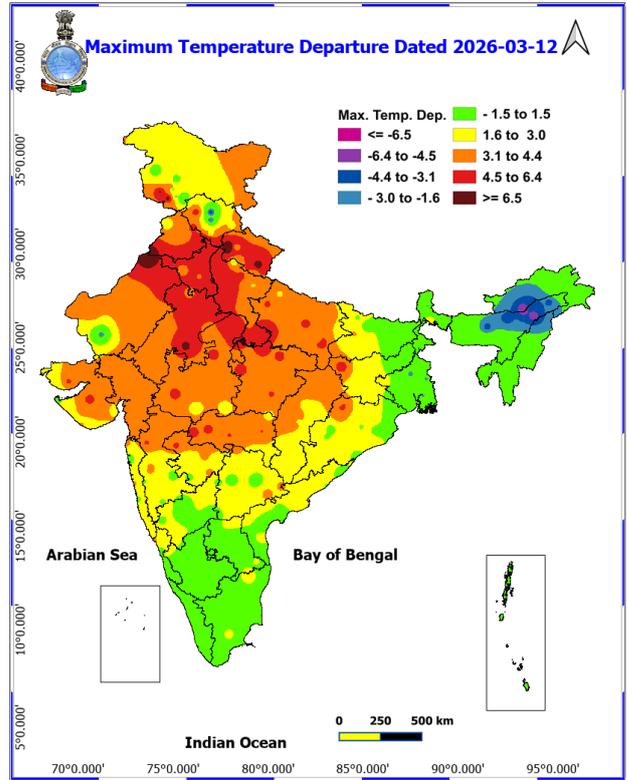
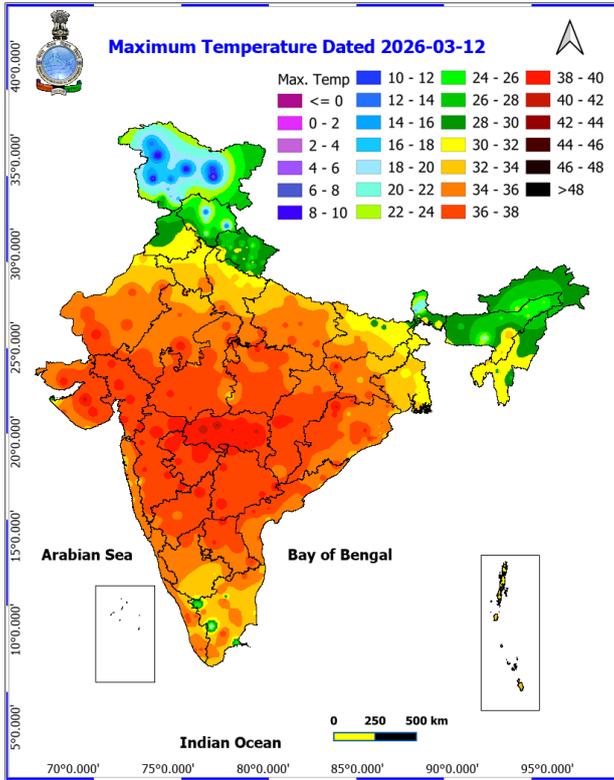
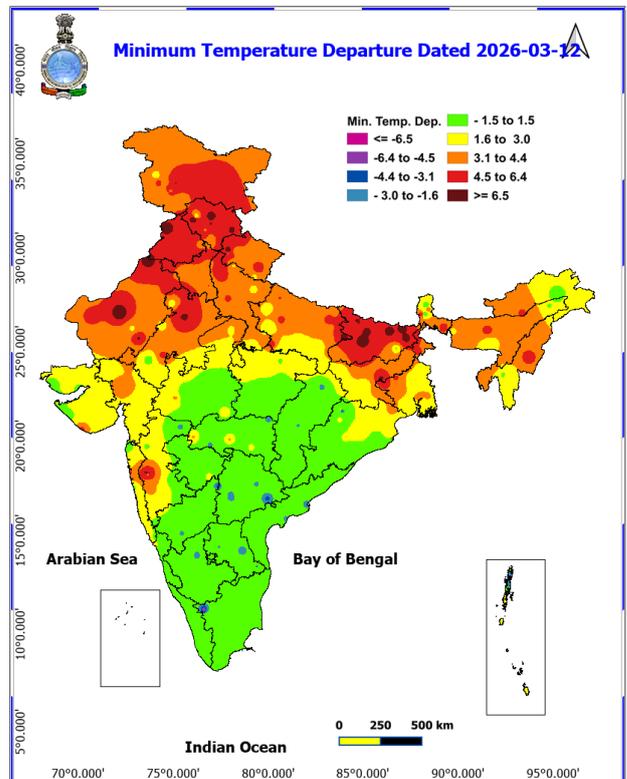
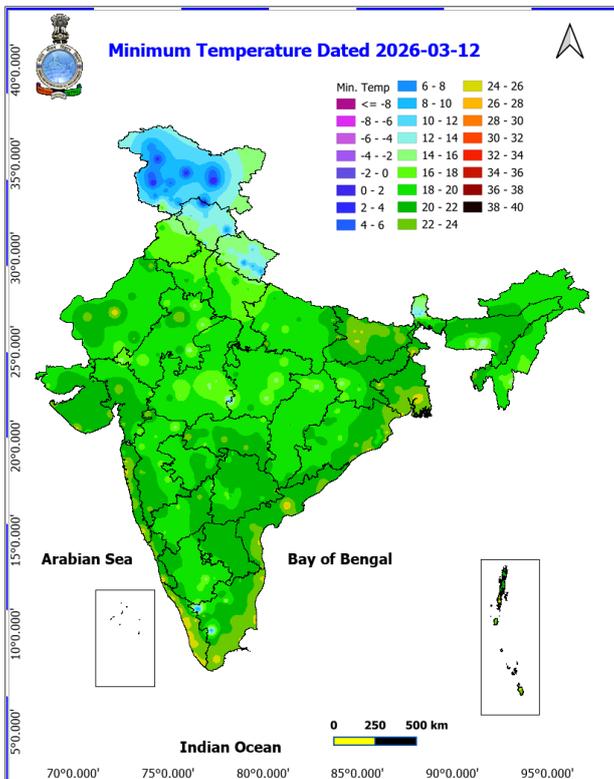
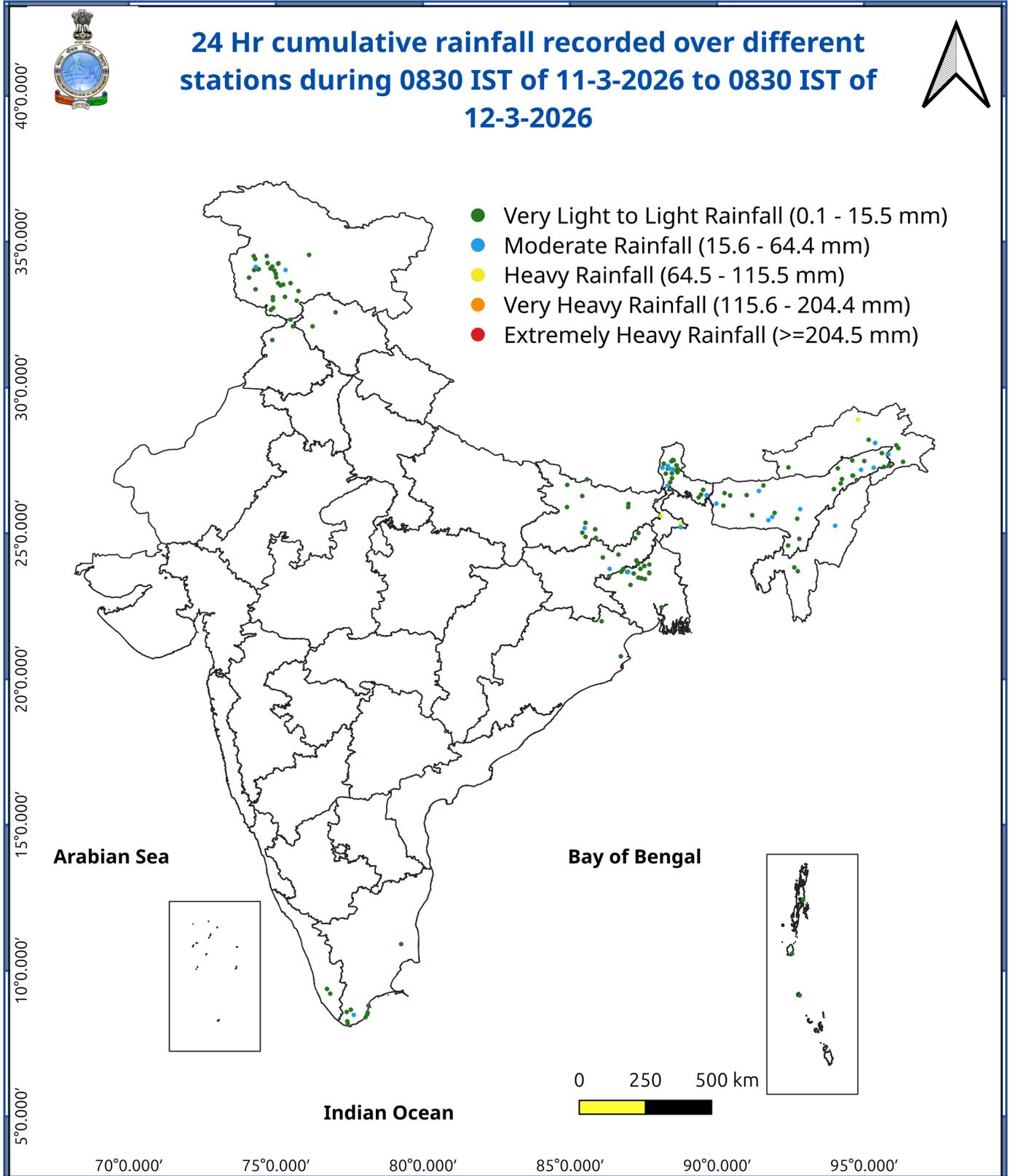


Fig. 3: Minimum Temperatures Dated 2026-03-12

Fig. 4: Departure of Minimum Temp. Dated 2026-03-12





Impact and Actions

Impact & Action Suggested due to heavy/very heavy rainfall:

- Isolated heavy rainfall/snowfall very likely over Arunachal Pradesh during 12th-15th with heavy to very heavy rainfall/snowfall on 13th March.
- Isolated heavy rainfall over Sub-Himalayan West Bengal & Sikkim on 12th & 13th; Assam & Meghalaya during 12th-15th; Nagaland, Manipur, Mizoram & Tripura on 16th & 17th March.

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).

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.

- **Heat wave to severe heat wave conditions** very likely in some places over Saurashtra & Kutch on 12th and heat wave conditions in isolated pockets on 13th March. Isolated Heat Wave conditions likely over Gujarat region on 12th & 13th March.
- **Heat wave to severe heat wave conditions** very likely in isolated pockets over South west Madhya Pradesh on 12th & 13th March.
- **Heat wave conditions** in isolated pockets over Vidarbha on 12th; Himachal Pradesh and north Konkan on 13th & 14th March.

Orange alert Areas

- High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure— keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

Yellow alert Areas

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- Wear lightweight, light colour, loose, cotton clothes.
- Cover your head, use a cloth, hat or umbrella.

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Agromet advisories for various parts of the country

Agromet advisories for likely impact of Heavy Rainfall

- In **Arunachal Pradesh**, undertake harvesting of cabbage, pea, mustard and late-maturing paddy varieties, digging of mature potatoes and shift the harvested produce to safe places.
- In **Meghalaya**, make necessary arrangements for proper drainage in summer vegetable crops. Carry out staking and propping of plantation crops and protect young seedlings from heavy rainfall. Harvest garden peas when the pods are green, tender, and fully developed, and keep the harvested pods in safer place immediately.
- In **Sub-Himalayan West Bengal**, dig out mature potatoes as soon as possible during clear weather and store the produce in a ventilated, dry, and cool place.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Likely Impact of Above normal Temperatures

- Increased evapotranspiration leading to soil moisture depletion and moisture stress, which may adversely affect crop growth, seed development and yield.
- Accelerated crop maturity, shortened grain filling duration and shrivelled grain formation, resulting in possible yield reduction in wheat crop.
- Increased moisture stress and reduced grain filling in cereals and other *rabi* crops such as *rabi* maize, sorghum and other late sown *rabi* crops (vegetative to reproductive stages).
- Flower drop, poor pod setting, premature pod drying and reduction in seed size and seed weight in oilseed and pulse crops.
- Reduced tuber bulking and early plant senescence in tuber crops such as potato.
- Flower drop, fruit sunscald and reduction in marketable yield in vegetable crops such as tomato, capsicum, cabbage and cauliflower.
- Flower drop, reduced fruit setting, premature fruit drop, fruit sunburn (or sunscald), reduction in fruit size, uneven ripening, deformities such as spongy tissue (especially in mango), along with an overall decrease in yield and quality in horticultural crops (such as mango, apple, orange, etc.).
- Increased crop water requirements and higher risk of water stress under limited irrigation conditions.
- Reduced feed intake, milk yield and egg production along with increased water requirement in livestock and poultry.

Agromet advisories for likely impact of Above normal Temperatures

- In **Gujarat**, apply light irrigation in wheat (grain filling stage), chickpea, cumin and vegetable crops in the morning and evening hours. Apply mulching with crop residues in vegetable crops to prevent heat damage and conservation of soil moisture. Protect vegetable nurseries and orchards against hot winds by physical barrier like wet gunny bag barriers of hay or sorghum.
- In **Maharashtra**, provide light and frequent irrigation during the evening or early morning hours to sapota, chilli, brinjal and tomato. Apply irrigation at frequent intervals to reduce premature fruit drop and sun scorching in mango and undertake pre-harvest bagging of mango fruits using newspaper bags to prevent sun scalding in **Konkan**. Apply irrigation in late sown *rabi* crops like wheat, groundnut, sesame, safflower, sorghum, orchards and vegetables as per requirement and use straw mulch to reduce evaporation losses in **Vidarbha**.
- In **Madhya Pradesh**, apply light irrigation in wheat, chickpea and sugarcane to minimize the impact of high temperature. Complete harvesting of matured mustard during morning/evening hours and keep the produce in safe places.
- In **Chhattisgarh**, provide **light and frequent irrigation** in standing crops such as **wheat, chickpea, lentil and mustard** to minimize heat stress and maintain adequate soil moisture.
- In **Rajasthan**, provide protective irrigation in cumin, isabgol, mustard and gram during morning or evening hours to minimize heat stress.
- In **Uttar Pradesh**, provide light irrigation in wheat (grain filling stage), mustard and gram crops during morning

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or evening hours to reduce adverse impacts of heat.

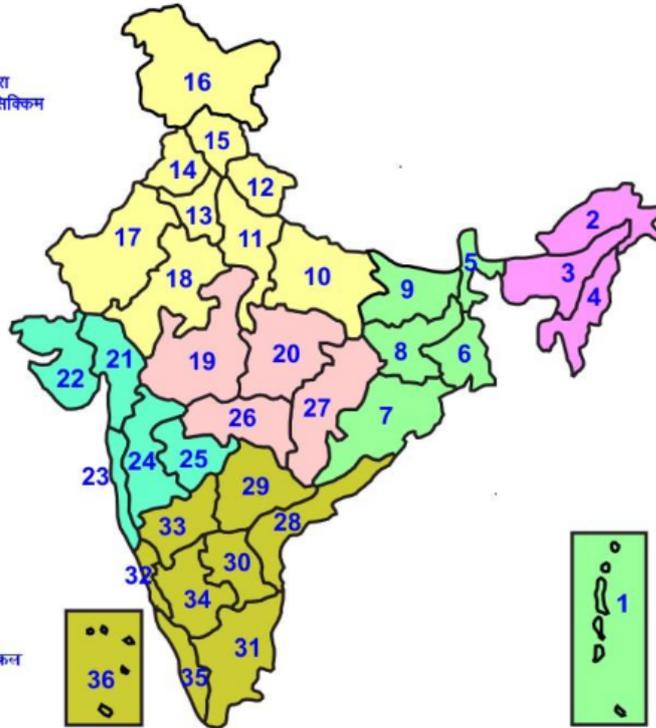
- In **Haryana**, provide light irrigation to mustard and gram at flowering and pod formation stages. Maintain optimum soil moisture in wheat during grain filling stage.
- Take appropriate action for conservation of soil moisture through mulching, proper field bunding, and avoiding unnecessary intercultivation.

Livestock / Poultry

- Provide clean, hygienic and plenty of drinking water to animals.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass.

LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. 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 Colour

- NO WARNING
- WATCH (BE UPDATED)
- ALERT (BE PREPARED TO TAKE ACTION)
- WARNING (TAKE ACTION)

Probabilistic Forecast

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

- | | | | |
|--------------------------|-----------------|----------------------|--------------------|
| Heavy Rain | Very Heavy Rain | Extremely Heavy Rain | Heavy Snow |
| Thunderstorm & Lightning | Hailstorm | Dust Storm | Dust Raising Winds |
| Strong surface winds | Heat Wave | Hot Day | Warm Night |
| Cold Wave | Cold Day | Ground Frost | Fog |
| Hot & Humid | | | |

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LEGENDS

WARNING

| |
|-------------------------|
| WARNING (TAKE ACTION) |
| ALERT (BE PREPARED) |
| WATCH (BE UPDATED) |
| NO WARNING (NO ACTION) |

Probabilistic Forecast

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



Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm*
Extremely Heavy: > 204.4 mm/cm *



When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .
Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.
Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$



When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .
Severe Warm Night: When minimum temperature departure $> 6.4^{\circ}\text{C}$.



When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$
Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$



When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions
Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$



Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

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



Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)



A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph
Severe: Wind speed 62-87 kmph
Very Severe: Wind speed > 87 kmph



Effect of various waves in the sea over specific area

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



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 Storm: Wind speed > 220 kmph (> 119 knots)

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