



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Sunday, April 27, 2025 Time of Issue: 1345 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and Warnings:

- An upper air cyclonic circulation lies over central Assam in lower tropospheric levels. A north-south trough runs from west Vidarbha to Gulf of Mannar in lower tropospheric levels. A trough of low runs at mean sea level chart from central parts of Uttar Pradesh to North Bangladesh.
- A Western Disturbance as a trough in middle tropospheric westerlies roughly along Long. 77°E to the north of Lat. 18°N and a cyclonic circulation lies over southwest Rajasthan & neighbourhood in lower tropospheric levels.
- ❖ An active fresh Western Disturbance likely to impact Northwest India from 02nd May.
- Under the influence of these systems:
 - ✓ Fairly widespread to widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph likely over Northeast India during next 5 days and thundersquall (wind speed reaching 50-70 kmph) likely over Assam & Meghalaya during 27th-29th April.
 - ✓ Heavy rainfall likely over Assam & Meghalaya on 27th; Nagaland, Manipur, Mizoram & Tripura on 27th & 28th; Arunachal Pradesh on 28th April.
 - ✓ **Isolated hailstorm** activity likely over Assam & Meghalaya on 27th April.
 - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 40-50 kmph gusting to 60 kmph** likely over East India, East Madhya Pradesh, Vidarbha, Chhattisgarh and East Uttar Pradesh during 26th-30th April with **Thundersquall (wind speed reaching 50-60 kmph)** likely over East Madhya Pradesh, Gangetic West Bengal, Bihar on 27th & 28th; Vidarbha, Chhattisgarh on 27th & 30th; Jharkhand on 28th April & 01st May; Odisha during 27th-29th April.
 - ✓ **Isolated hailstorm** activity likely over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Gangetic West Bengal, Bihar, Jharkhand on 27th; Chhattisgarh on 27th & 28th; Odisha during 27th-29th April.
 - ✓ **Isolated heavy rainfall** over Sub-Himalayan West Bengal & Sikkim, Bihar on 27th; Gangetic West Bengal on 28th; Jharkhand on 29th April & 01st may; Odisha on 27th and during 29th April-01st may.
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm**, **lightning & strong winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal during next 7 days with **thundersquall (wind speed reaching 50-60 kmph)** likely over North Interior Karnataka during 27th April-01st May.
 - ✓ **Isolated heavy rainfall** likely over Kerala & Mahe during 28th-30thApril.
 - ✓ **Isolated hailstorm** activity likely over North Interior Karnataka on 27th, 30th & 01st May; South Interior Karnataka on 27th April.
 - ✓ **Isolated to scattered** light rainfall with **thunderstorm, lightning & strong winds speed reaching 30-40 kmph** likely over Western Himalayan region and plains of northwest India during 30th April to 03rd May.

Temperature Forecast:

- Gradual rise in maximum temperatures by 2-3°C likely over Northwest India during next 4 days and fall by 2-4°C for subsequent 3 days.
- Gradual fall in maximum temperatures by 2°C likely over Central India during next 2 days and rise by 2-3°C for subsequent 3 days.
- Gradual fall in maximum temperatures by 3-5°C likely over East India during next 3 Days and no significant change during subsequent 4 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Maharashtra during next 5 days.
- No significant change in maximum temperatures likely over Gujarat during next 24 hours and rise by 2-3°C for subsequent 4 days.
- No significant change in maximum temperatures likely over South Peninsular India during next 2 days and fall by 2-3°C for subsequent 3 days.
- No significant change in maximum temperatures likely over rest parts of the country.

Heat wave, warm night and Hot & Humid weather warning:

- ❖ Heat wave conditions very likely in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 27th-29th; Haryana during 27th-30th; Himachal Pradesh during 28th -30th; Punjab, West Rajasthan during 27th-01st May; East Rajasthan on 29th & 30th; West Madhya Pradesh during 29th-01st May.
- ♦ Hot & humid weather is likely to prevail over Gujarat state, Tamilnadu Puducherry & Karaikal during 27th-01st May; Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka on 27th & 28th; Marathawada during 28th-01st May.







Main Weather Observations:

- ❖ Rainfall observed (from 0830 hours of yesterday IST to 1730 hours IST of today): at many places over Gangetic West Bengal, Arunachal Pradesh; at a few places over Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Karnataka, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Odisha; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Marathawada, Madhya Maharashtra, Tamilnadu Puducherry & Karaikal, Rayalaseema, Telangana, Interior Karnataka.
- ❖ Significant rainfall (from 0830 hours IST of yesterday to 1730 hours IST of today): Arunachal Pradesh: Koloriang 9, Kibithu (dist Anjaw) 4; Odisha: Jaipatna (dist Kalahandi) 8, Nawapara (dist Nawapara) 7, Raighar (dist Nawarangpur) 5, Muruda (dist Mayurbhanj) 5, Betanati (dist Mayurbhanj) 5, Papadahandi (dist Nawarangpur) 5; Assam & Meghalaya: Bokajan 7, Bhaghmara (dist South Garo Hills) 3, Mawsynram (dist East Khasi Hills) 3, Sonari_arg (dist Sibsagar) 3, Williamnagar_ Aws (dist East Garo Hills) 3, Mohanbari_aws (dist Dibrugarh) 3,
- **Hailstorm** occurred at isolated places over Interior Karnataka.
- Heavy rainfall recorded at isolated places over Arunachal Pradesh, Assam & Meghalaya, Odisha, Chhattisgarh;
- **Heat wave conditions** prevailed in isolated pockets of East Uttar Pradesh, Bihar.
- **Duststorm** occurred at isolated places over West Rajasthan.
- ❖ Minimum Temperature Departures (as on 27-04-2025): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Bihar; at isolated places over Haryana-Chandigarh-Delhi, East Uttar Pradesh; above normal (1.6°C to 3.0°C) at a few places over Sub-Himalayan West Bengal & Sikkim, Rayalaseema; at isolated places over Himachal Pradesh, West Rajasthan, East Madhya Pradesh, East Madhya Pradesh, Kerala & Mahe, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura. These are below normal (-1.6°C to -3.0°C) at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over East Rajasthan, West Madhya Pradesh, Marathwada, Telangana, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal and normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 17.1°C is reported at Adampur (Punjab) over the plains of the country.
- ❖ Maximum Temperature Departures (as on 26-04-2025): Maximum Temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Uttar Pradesh, Himachal Pradesh, Bihar, Jharkhand; at isolated places over Punjab, Haryana-Chandigarh-Delhi, Assam & Meghalaya; above normal (1.6°C to 3.0°C) at a few places over Gangetic West Bengal, Chhattisgarh, Saurashtra & Kutch, Konkan & Goa; at isolated places over Sub-Himalayan West Bengal & Sikkim, West Rajasthan, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha, Telangana. These were below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar Islands; at isolated places over East Madhya Pradesh, South Interior Karnataka, Arunachal Pradesh and normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 44.8°C was reported at Sultanpur & Prayagraj (East Uttar Pradesh) over the country.





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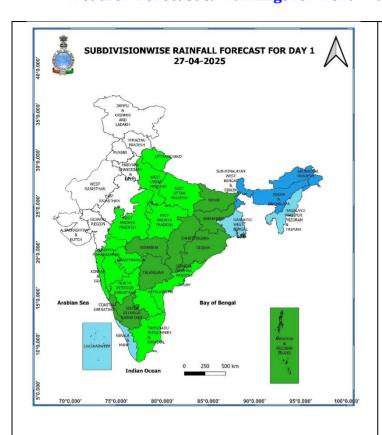
Meteorological Analysis (Based on 0830 hours IST)

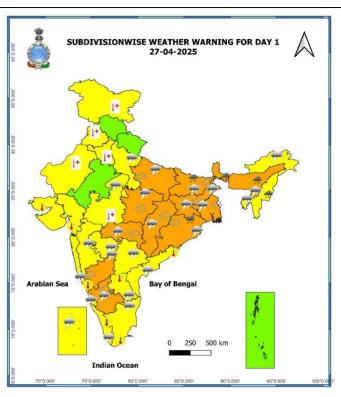
- ❖ A **trough of low** runs at mean sea level chart from central parts of Uttar Pradesh to North Bangladesh across central part of Bihar.
- ❖ The Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 77°E to the north of Lat. 18°N persists.
- ❖ The **cyclonic circulation** over southwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- The north-south **trough** from west Vidarbha to Gulf of Mannar across Marathwada, Interior Karnataka & Tamil Nadu extending upto 1.5 km above mean sea level persists.
- ❖ The upper air **cyclonic circulation** over central Assam & neighbourhood at 0.9 km above mean sea level persists.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan region from 02nd May, 2025.





Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 04th May, 2025)



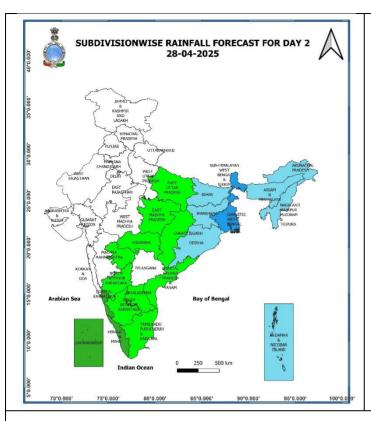


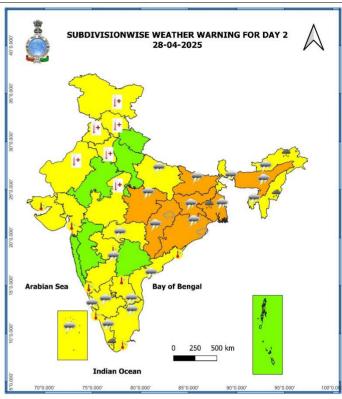
27th April (Day 1)

- Heavy Rain very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura and Bihar and very likely at isolated places over South Himalayan West Bengal & Sikkim and Odisha.
- Thundersquall with wind speed reaching 50-60kmph very likely at isolated places over Assam & Meghalaya, Gangetic West Bengal, Odisha, Bihar, East Madhya Pradesh, Vidarbha, Chhattisgarh and North Interior Karnataka.
- Thunderstorms with gusty winds(40-50kmph) very likely at isolated places over Nagaland, Manipur, Meghalaya & Tripura, South Himalayan West Bengal & Sikkim, Jharkhand, West Madhya Pradesh, Marathwada, Telangana, Rayalaseema, South Interior Karnataka and Kerala and very likely at isolated places over East Uttar Pradesh.
- Thunderstorms with gusty winds(30-40kmph) very likely at isolated places over Arunachal Pradesh and Coastal Andhra Pradesh and very likely at isolated places over Madhya Maharashtra and Costal Karnataka.
- Thunderstorm & Lightning very likely at isolated places over West Uttar Pradesh and Tamilnadu & Puducherry, Konkan & Goa and Lakshadweep.
- Hailstorm very likely at isolated places over Gangetic West Bengal, Odisha, Jharkhand, Bihar, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, North Interior Karnataka and South Interior Karnataka.
- Hot and Humid very likely at isolated places over Gujarat Region, Saurashtra & Kutch, Coastal Andhra Pradesh, Rayalaseema, Tamilnadu & Puducherry, Costal Karnataka and Kerala.
- Heat Wave conditions very likely at isolated places over Punjab, North Haryana, West Rajasthan, Jammu and Kashmir & Ladakh and West Madhya Pradesh.
- Squally wind with speed reaching 45 kmph to 50 kmph gusting to 55 kmph likely to prevail along and off north Odisha and West Bengal coasts.







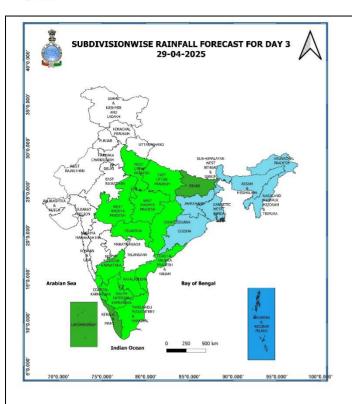


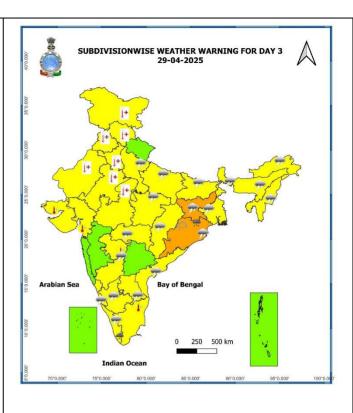
28th April (Day 2)

- Heavy Rain very likely at isolated places over Arunachal Pradesh, Nagaland, Manipur, Meghalaya & Tripura, Gangetic West Bengal and Kerala.
- Thundersquall with wind speed reaching 50-60kmph very likely at isolated places over Assam & Meghalaya, Gangetic West Bengal, Jharkhand, Bihar, East Madhya Pradesh, Chhattisgarh and Odisha.
- Thunderstorms with gusty winds(40-50kmph) very likely at isolated places over Nagaland, Manipur, Meghalaya & Tripura, Vidarbha, North Interior Karnataka, East Uttar Pradesh, Coastal Andhra Pradesh and South Interior Karnataka.
- **❖ Thunderstorms with gusty winds(30-40kmph)** very likely at isolated places over South Himalayan West Bengal & Sikkim, Kerala, Rayalaseema.
- ❖ Thunderstorm & Lightning very likely at isolated places over Arunachal Pradesh, Costal Karnataka, Lakshadweep, Tamilnadu & Puducherry.
- **Hailstorm** very likely at isolated places over Odisha and Chhattisgarh.
- Hot and Humid very likely at isolated places over Gujarat Region, Saurashtra & Kutch, Marathwada, Coastal Andhra Pradesh, Rayalaseema, Tamilnadu & Puducherry, Costal Karnataka and Kerala.
- ❖ **Heat Wave** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh and West Rajasthan, Jammu and Kashmir & Ladakh and West Madhya Pradesh.
- ❖ Squally wind with speed reaching 45 kmph to 50 kmph gusting to 55 kmph likely to prevail along and off north Odisha and West Bengal coasts



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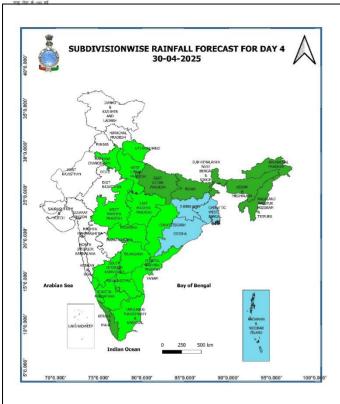


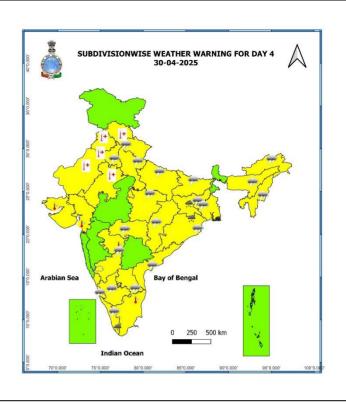


29th April (Day 3)

- **❖ Thundersquall with wind speed reaching 50-60kmph** very likely at isolated places over Assam & Meghalaya, Odisha and North Interior Karnataka.
- Thunderstorms with gusty winds(40-50kmph) very likely at isolated places over Nagaland, Manipur, Meghalaya & Tripura, Gangetic West Bengal, Jharkhand, East Madhya Pradesh, East Uttar Pradesh, Coastal Andhra Pradesh and South Interior Karnataka.
- **Thunderstorms with gusty winds(30-40kmph)** very likely at isolated places over South Himalayan West Bengal & Sikkim, Bihar, Chhattisgarh, Kerala and Rayalaseema.
- **Thunderstorm & Lightning** very likely at isolated places over Arunachal Pradesh and Costal Karnataka and very likely at isolated places over West Uttar Pradesh.
- ❖ Hot and Humid very likely at isolated places over Gujarat Region, Saurashtra & Kutch, Marathwada and Tamilnadu & Puducherry.
- **Heat Wave** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan and West Madhya Pradesh.
- **\Delta Hailstorm** very likely at isolated places over Odisha.
- * Heavy Rain very likely at isolated places over Odisha and very likely at isolated places over Kerala.
- Squally wind with speed reaching 45 kmph to 50 kmph gusting to 55 kmph likely to prevail along and off north Odisha and West Bengal coasts.

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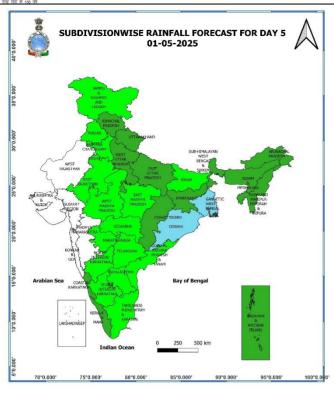


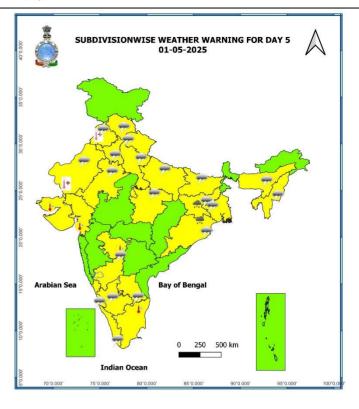
30th April (Day 4)

- ❖ **Heavy Rain** likely at isolated places over Odisha, Jharkhand and Kerala.
- Thundersquall with wind speed reaching 50-60kmph likely at isolated places over Vidarbha, Chhattisgarh and North Interior Karnataka.
- Thunderstorms with gusty winds(40-50kmph) likely at isolated places over Assam & Meghalaya, Odisha, Jharkhand, Uttarakhand, East Madhya Pradesh, East Uttar Pradesh, Coastal Andhra Pradesh and South Interior Karnataka.
- Thunderstorms with gusty winds (30-40kmph) likely at isolated places over Nagaland, Manipur, Meghalaya & Tripura, Gangetic West Bengal, Bihar, Haryana, Chandigarh & Delhi and Rayalaseema.
- Thunderstorm & Lightning likely at isolated places over Arunachal Pradesh, Costal Karnataka, West Uttar Pradesh.
- Hot and Humid likely at isolated places over Gujarat Region, Saurashtra & Kutch, Marathwada and Tamilnadu & Puducherry.
- ❖ Heat Wave likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh, West Rajasthan and East Rajasthan.
- **Hailstorm** likely at isolated places over North Interior Karnataka.



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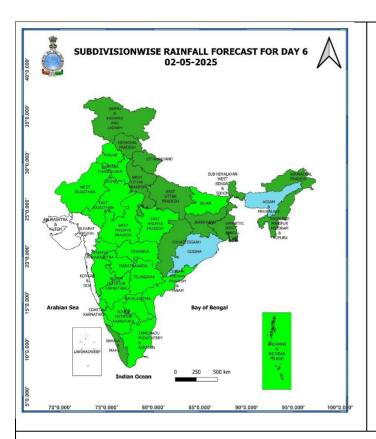


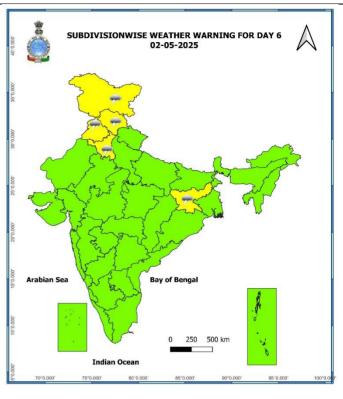
01st May (Day 5)

- Thundersquall with wind speed reaching 50-60kmph likely at isolated places over Jharkhand and North Interior Karnataka.
- Thunderstorms with gusty winds(40-50kmph) likely at isolated places over Odisha, East Uttar Pradesh, Uttarakhand, Himachal Pradesh, East Madhya Pradesh and South Interior Karnataka.
- Thunderstorms with gusty winds(30-40kmph) likely at isolated places over Gangetic West Bengal, Bihar, Punjab, Rayalaseema and Haryana, Chandigarh & Delhi.
- Thunderstorm & Lightning likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, West Uttar Pradesh, West Rajasthan, East Rajasthan, Costal Karnataka and Kerala.
- Hot and Humid likely at isolated places over Gujarat Region, Saurashtra & Kutch, Marathwada and Tamilnadu & Puducherry.
- **\Delta Heat Wave** likely at isolated places over Punjab and West Rajasthan.
- ❖ **Hailstorm** likely at isolated places over North Interior Karnataka.
- **Heavy Rain** likely at isolated places over Odisha and Jharkhand.



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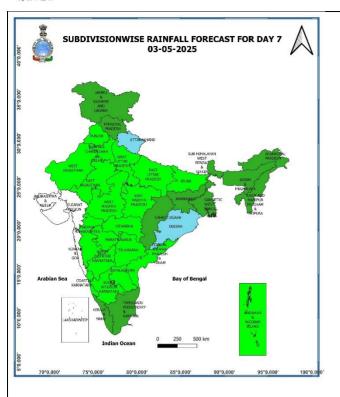


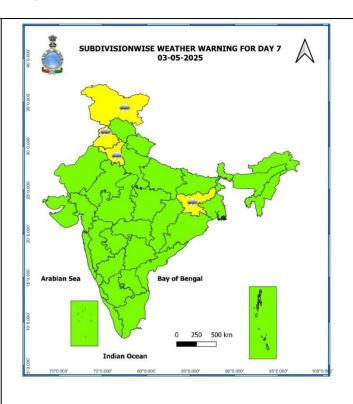
02nd May (Day 6)

- Thunderstorms with gusty winds (40-50kmph) likely at isolated places over Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- Thunderstorms with gusty winds(30-40kmph) likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- **❖ Thunderstorm & Lightning** likely at isolated places over Jharkhand.



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03rd May (Day 7)

- Thunderstorms with gusty winds(40-50kmph) likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- **❖ Thunderstorms with gusty winds(30-40kmph)** likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- **Thunderstorm & Lightning** likely at isolated places over Jharkhand.

Weather Outlook for subsequent 3 days (During 04th May- 06th May, 2025)

- **Scattered to fairly widespread** rainfall activity likely over east & northeast India, Kerala.
- ❖ Isolated to scattered rainfall likely over Northwest India, adjoining central India, Maharashtra, south peninsular India and Andaman & Nicobar Islands.

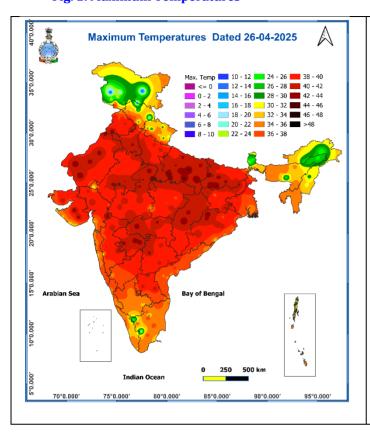
Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.



Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures



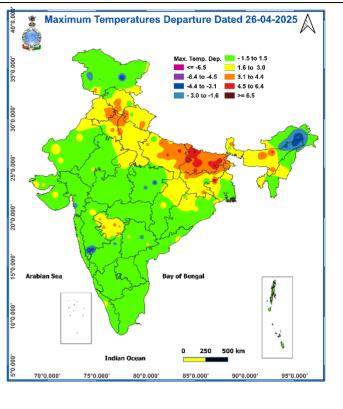


Fig. 3: Minimum Temperatures

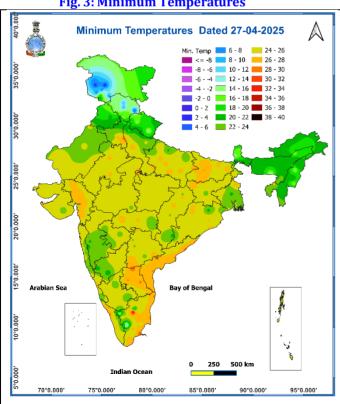


Fig. 4: Departure of Minimum Temperatures

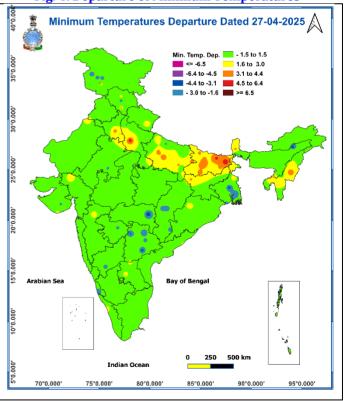
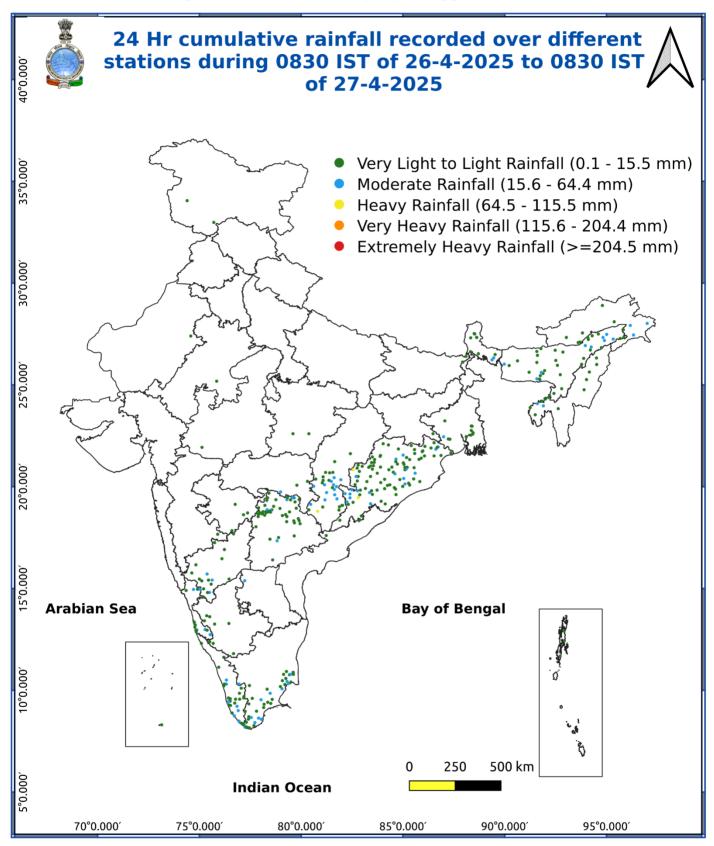






Fig. 5: Accumulated Rainfall (mm) during past 24 hours





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Impact expected and action suggested due to isolated thunderstorm with lightning/gusty & Squally winds & Hailstorm over

- ✓ **Isolated hailstorm** activity likely over North Interior Karnataka on 27th, 30th & 01st May; South Interior Karnataka, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Gangetic West Bengal, Bihar, Jharkhand, Assam & Meghalaya on 27th; Chhattisgarh on 27th & 28th; Odisha during 27th-29th April.
- ✓ **Thundersquall (wind speed reaching 50-60 kmph)** likely over North Interior Karnataka during 27th April-01st May; East Madhya Pradesh, Gangetic West Bengal, Bihar on 27th & 28th; Vidarbha, Chhattisgarh on 27th & 30th; Jharkhand on 28th April & 01st May; Odisha during 27th-29th April.

Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- > 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:

- ➤ People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- > 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.

Impact expected and action suggested due to Heat wave conditions over some parts of Northwest India during 27th to 01st May and over West Madhya Pradesh during 29th to 1st May

Vallow alart 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.

Impact & Action Suggested due to heavy rainfall over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar on 27th; Nagaland, Manipur, Mizoram & Tripura on 27th & 28th; Arunachal Pradesh, Gangetic West Bengal on 28th April. Kerala & Mahe during 28th-30th; Jharkhand on 29th April & 01st may; Odisha on 27th and during 29th April-01st may.

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).





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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.

Agromet advisories for likely impact of Hailstorm / Heavy Rainfall / Gusty Winds / Heat wave

- In North Eastern States, West Bengal & Sikkim, Odisha and Bihar, make provision to drain out excess water from standing crop and vegetable fields.
- In Assam, Meghalaya, West Bengal, Odisha, Bihar, Jharkhand, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh and Interior Karnataka, use hail net and hail caps to prevent mechanical damage in vegetables and orchards due to the possibility of hailstorms.
- > To protect standing crops, vegetables and orchards from adverse effects of heat waves and high temperatures, apply light and frequent irrigation in the evening.
- > Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.

Livestock / Poultry / Fishery

- Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- > To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also, provide clean, hygienic and plenty of drinking water to animals.
- > Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty & Squally winds & Hailstorm over

- ✓ **Isolated hailstorm** activity likely over North Interior Karnataka on 27th, 30th & 01st May; South Interior Karnataka, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Gangetic West Bengal, Bihar, Jharkhand, Assam & Meghalaya on 27th; Chhattisgarh on 27th & 28th; Odisha during 27th-29th April.
- ✓ **Thundersquall (wind speed reaching 50-60 kmph)** likely over North Interior Karnataka during 27th April-01st May; East Madhya Pradesh, Gangetic West Bengal, Bihar on 27th & 28th; Vidarbha, Chhattisgarh on 27th & 30th; Jharkhand on 28th April & 01st May; Odisha during 27th-29th April.

Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- > Minor to major damage to power and communication lines due to breaking of branches.
- 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:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- > 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.





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Keep away from all the objects that conduct electricity.

Impact expected and action suggested due to Heat wave conditions over some parts of Northwest India during 27th to 01st May and over West Madhya Pradesh during 29th to 1st May

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.

Impact & Action Suggested due to heavy rainfall over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar on 27th; Nagaland, Manipur, Mizoram & Tripura on 27th & 28th; Arunachal Pradesh, Gangetic West Bengal on 28th April. Kerala & Mahe during 28th-30th; Jharkhand on 29th April & 01st may; Odisha on 27th and during 29th April-01st may.

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.

Agromet advisories for likely impact of Hailstorm / Heavy Rainfall / Gusty Winds / Heat wave

- In North Eastern States, West Bengal & Sikkim, Odisha and Bihar, make provision to drain out excess water from standing crop and vegetable fields.
- ➤ In Assam, Meghalaya, West Bengal, Odisha, Bihar, Jharkhand, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh and Interior Karnataka, use hail net and hail caps to prevent mechanical damage in vegetables and orchards due to the possibility of hailstorms.
- To protect standing crops, vegetables and orchards from adverse effects of heat waves and high temperatures, apply light and frequent irrigation in the evening.
- > Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.

Livestock / Poultry / Fishery

- Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also, provide clean, hygienic and plenty of drinking water to animals.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

32. तटीय कर्नाटक

35. केरल और माहे

S Dust Raising Winds

36. लक्षद्वीप

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक दक्षिणी कर्नाटक

राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

LEGENDS



- 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. Odisha
- 8. Jharkhand
- 9. Rihar
- 10. East Uttar Pradesh
- 11. West Uttar Pradesh
- 12. Uttarakhand
- 13. Haryana, Chandigarh & Delhi
- 14. Puniab
- 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. Marathwada
- 26. Vidarbha
- 27. Chhattisgarh
- 28. Coastal Andhra Pradesh & Yanam
- 29. Telangana
- 30. Rayalaseema
- 31. Tamilnadu, Puducherry & Karaikal

> 75

- 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)



Strong Surface Winds





	DEFINITION/CRITERIA
	Heavy: 64.5 to 115.5 mm/cm *
Rain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm*
	Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions
	(a) Based on Departure from normal Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
Heat Wave	Severe Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
	(b). Based on Actual maximum temperature
	Heat Wave: When actual maximum temperature ≥45°C.
	Severe Heat Wave: When actual maximum temperature ≥47°C
	(c). Criteria for heat wave for coastal stations
	When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
	When maximum temperature remains 40°C
Warm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
	When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C
Cold Wave	(b) Based on actual Minimum Temperature (for Plains only)
	Cold Wave : When Minimum Temperature is ≤ 4.0 °C
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	(c) For Coastal Stations
	When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions
Cold Day	Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C. Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Severe Cold Day. Maximum Temperature Departure from Horman 2 -0.5 C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
Fog	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
hunderstorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
Dust/Sand	
	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and
Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
Storm	lce deposits on ground
	turbulent wind.
Storm	lce deposits on ground Air temperature ≤4°C (over Plains)
Frost	lce deposits on ground
Storm	lce deposits on ground Air temperature ≤4°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
Frost	lce deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph
Frost	lce deposits on ground Air temperature ≤4°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
Frost Squall	Ice deposits on ground Air temperature ≤4°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
Frost	Ice deposits on ground Air temperature ≤4°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
Frost Squall	Ice deposits on ground Air temperature ≤4°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
Frost Squall	Ice deposits on ground Air temperature ≤4°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 (>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)
Frost Squall Sea State	Ice deposits on ground Air temperature ≤4°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)
Frost	Ice deposits on ground Air temperature ≤4°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 (>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)