



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Thursday, April 3, 2025 Time of Issue: 1330 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 Marathwada & adjoining Madhya Maharashtra in the lower tropospheric levels.
- An upper air trough in easterlies runs from South Interior Karnataka to southwest Madhya Pradesh across the above cyclonic circulation over Marathwada in the lower tropospheric levels.
- An upper air Cyclonic Circulation lies over Sub-Himalayan West Bengal & adjoining Bangladesh in the lower tropospheric levels.
- An upper air cyclonic circulation lies over southeast Arabian Sea and a trough runs from this cyclonic circulation to south Kerala in lower tropospheric levels.
- Under the influence of these systems and confluence of moist winds from Arabian sea and Bay of Bengal in lower tropospheric levels;
 - ✓ Isolated to Scattered light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 40-50 kmph) likely over South Peninsular India during 03rd-05th; Central India, Maharashtra, Gangetic West Bengal, Jharkhand and Odisha on 03rd & April.
 - ✓ Isolated Hailstorm likely over East Rajasthan, Madhya Pradesh, Vidarbha, Telangana on 03rd; Jharkhand on 04th; Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 05th April.
 - ✓ Heavy rainfall very likely at isolated places over Kerala & Mahe, South Interior Karnataka during 03rd-06th; Tamil Nadu during 03rd-05th; Coastal Karnataka on 03rd & 04th; North Interior Karnataka, Andaman & Nicobar Islands on 03rd; Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 05th & 06th; Arunachal Pradesh on 05th April.

Temperature Forecast:

- ✤ Gradual rise in maximum temperatures by 3-5°C likely over Northwest India during next 6 days.
- No significant change in maximum temperatures likely over Central India during next 2 days and gradual rise by 2-4°C during subsequent 5 days.
- No significant change in maximum temperatures likely over West India during next 24 hours and rise by 2-3°C during subsequent 5 days.
- No significant change in maximum temperatures likely over south peninsular India during next 3 days and rise by 2-3°C during subsequent 4 days.
- No significant change in maximum temperatures likely over rest parts of the country during next 7 days.

Heat wave and Hot & Humid weather warning:

- Heat Wave conditions very likely to continue to prevail at isolated/some pockets of Saurashtra & Kutch during 03rd-08th; in isolated pockets of West Rajasthan during 06th-09th; Gujarat Region during 06th-08th; East Rajasthan, Punjab, Haryana during 07th-09th April.
- ✤ Hot & humid weather is likely over Gujarat state during 03rd-09th and over Konkan & Goa during 05th-09th April, 2025.





Main Weather Observations:

- Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Andaman & Nicobar Islands; at few places over Vidarbha, Arunachal Pradesh, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Lakshadweep3, Coastal Karnataka; at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha, Assam & Meghalaya, Interior Karnataka, Konkan & Goa, Madhya Maharashtra and Marathwada.
- Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Tamil Nadu Puducherry & Karaikal: Sivagiri (dist Tenkasi) 11, Tondi (dist Ramanathapuram), Tirumangalam (dist Madurai) 9 each, Madurai Airport (dist Madurai) 7, Kovilankulam (dist Virudhunagar), Sivaganga (dist Sivagangai) 6 each, Konkan & Goa: Devgad (dist Sindhudurg) 7, Vaibhavwadi (dist Sindhudurg) 3, Ratnagiri - Imd Obsy (dist Ratnagiri) 3, Kerala & Mahe: Punalur (Kollam district) & amp; Myladumpara (Idukki district) 4 each; Madhya Maharashtra: Satna Baglan (dist Nashik) 3.
- Heavy rainfall occurred at isolated places over Konkan and Tamil Nadu.
- Squally/Gusty winds prevailed at isolated locations over Madhya Pradesh, Vidarbha, Chhattisgarh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya, Marathawada, Madhya Maharashtra, Interior Karnataka, Telangana, Tamil Nadu.
- Thunderstorm with lightning reported at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Konkan & Goa, Coastal & South Interior Karnataka.
- Hailstorm occurred at isolated places over Madhya Pradesh.
- **Heatwave** prevailed at isolated pockets over Saurashtra & Kutch.
- Minimum Temperature Departures (as on 03-04-2025): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at a few places over Gangetic West Bengal; at isolated places over East Rajasthan, Gujarat state, Konkan & Goa, Madhya Maharashtra, Marathwada, Bihar, Jharkhand, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam. These are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Haryana-Chandigarh-Delhi, Uttar Pradesh, Punjab; below normal (-3.0°C to -1.6°C) at a few places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 11.8°C is reported at Karnal (Haryana) over the plains of the country.
- Maximum Temperature Departures (as on 02-04-2025): Maximum Temperatures were markedly above normal (5.1°C or more) at isolated places over Saurashtra & Kutch, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; appreciably above normal (3.1°C to 5.0°C) at isolated places over Himachal Pradesh, Gujarat Region, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya; above normal (1.6°C to 3.0°C) at a few places over Gangetic West Bengal, Konkan & Goa; at isolated places over Haryana-Chandigarh-Delhi, Punjab, Rajasthan, West Madhya Pradesh. These were markedly below normal (-5.1°C or less) at isolated places over East Madhya Pradesh, East Uttar Pradesh; appreciably above normal (3.1°C to 5.0°C) at isolated places over Madhya Maharashtra, Vidarbha, Kerala & Mahe; below normal (3.0°C to -1.6°C) at a few places over Telangana; at isolated places over Marathwada, Rayalaseema, South Interior Karnataka, Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 42.8°C was reported at Surendranagar (Saurashtra & Kutch) over the country.





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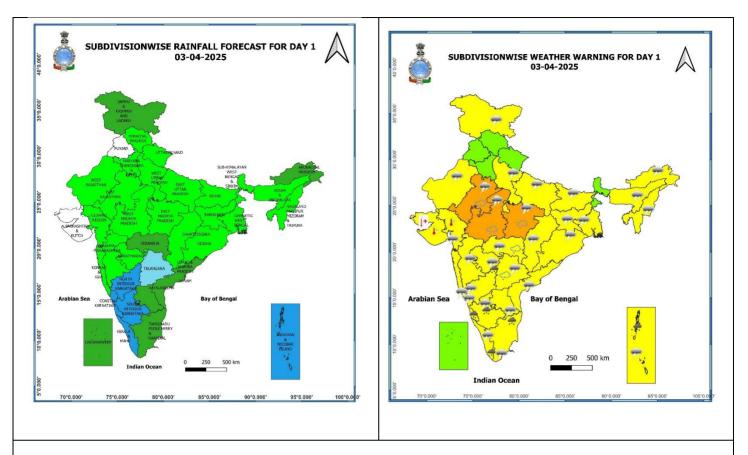
Meteorological Analysis (Based on 0830 hours IST)

- The Western Disturbance as a trough in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along 72°E to the north of 26°N persists.
- The upper air Cyclonic Circulation over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- The upper air Cyclonic Circulation over Sub-Himalayan West Bengal & neighborhood now lies over Sub-Himalayan West Bengal and adjoining Bangladesh and now extends upto 0.9 km above mean sea level.
- An upper air cyclonic circulation lies over Marathwada and adjoining Madhya Maharashtra at 0.9 km above mean sea level.
- A **trough** in easterlies runs from South Interior Karnataka to southwest Madhya Pradesh across the above cyclonic circulation over Marathwada at 0.9 km above mean sea level.
- An upper air cyclonic circulation lies over north coastal Andra Pradesh & adjoining south Odisha at 0.9 km above mean sea level.
- An upper air **cyclonic circulation** lies over southeast Arabian Sea & neighborhood at 3.1 km above mean sea level.
- A trough runs from the above cyclonic circulation to south Kerala at 3.1 km above mean sea level.
- ♦ A fresh Western Disturbance is likely to affect Western Himalayan region from 08th April, 2025.
- The trough from above cyclonic circulation over Sub-Himalayan West Bengal & neighbourhood to southeast Madhya Pradesh at 0.9 km above mean sea level has become less marked.
- The upper air Cyclonic Circulation over south Chhattisgarh & neighbourhood at 1.5 km above mean sea level has become less marked.
- The upper air Cyclonic Circulation over southwest Madhya Pradesh & neighbourhood at 1.5 km above mean sea level has become less marked.
- ***** The upper air **Cyclonic Circulation** over Comorin area & neighbourhood has become less marked.
- The **trough** in easterlies from Lakshadweep to Konkan has become less marked.



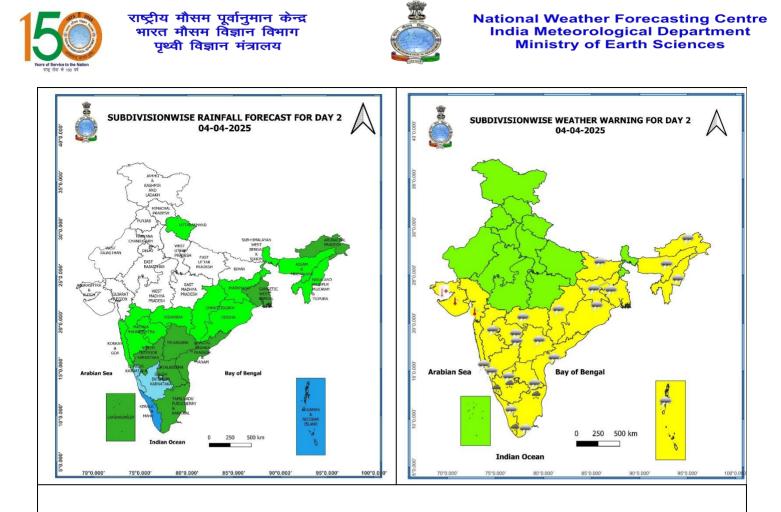


Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 10th April, 2025)



03rd April (Day 1):

- Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Karnataka, Andaman & Nicobar Islands.
- Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph) & hail very likely at isolated places over West Madhya Pradesh; with lightning & gusty winds (speed reaching 40-50 kmph) & hail at isolated places over East Rajasthan, East Madhya Pradesh, Vidarbha, Telangana; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat Region, Chhattisgarh, Jharkhand, Odisha; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Uttar Pradesh, West Rajasthan, Gangetic West Bengal, Bihar, Assam & Meghalaya, Marathwada, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka, South Interior Karnataka; with lightning at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands.
- Heat wave conditions very likely at isolated places over Saurashtra & Kutch.
- ✤ Hot and humid conditions very likely at isolated places over Gujarat state.



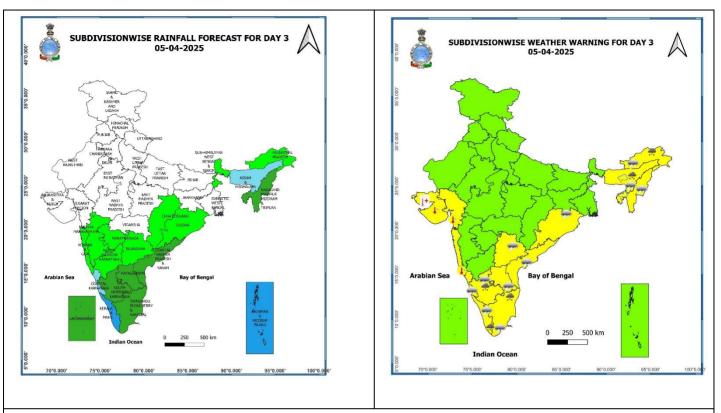
04th April (Day 2):

- Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal & South Interior Karnataka.
- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Gangetic West Bengal, Bihar, Jharkhand, Odisha; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Vidarbha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana; with lightning at isolated places over Arunachal Pradesh, Chhattisgarh, Andaman & Nicobar Islands.
- Heat wave conditions very likely at isolated places over Saurashtra & Kutch.
- Hot and humid conditions very likely at isolated places over Gujarat state.



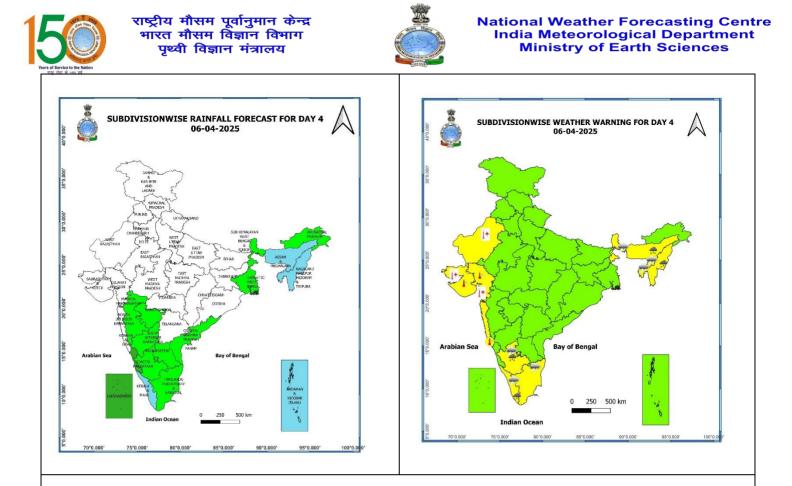


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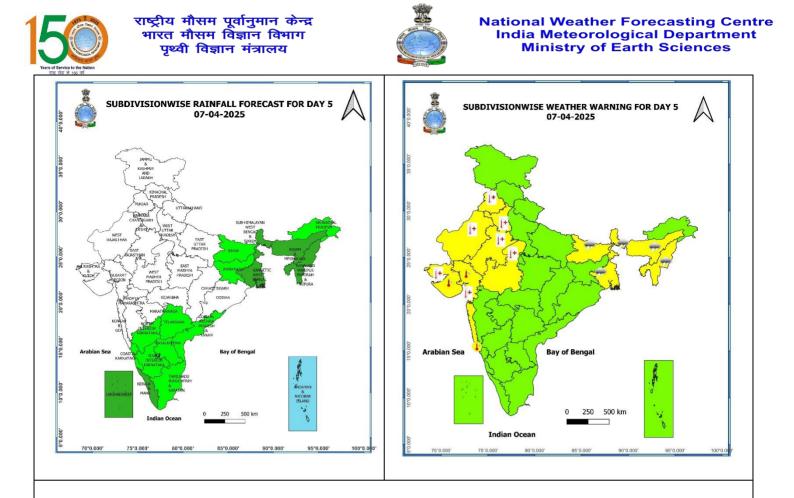
05th April (Day 3):

- Heavy rainfall very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, South Interior Karnataka.
- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 50 kmph) & hail very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Karnataka, South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Odisha; with lightning at isolated places over Arunachal Pradesh.
- * Heat wave conditions very likely at isolated places over Saurashtra & Kutch.
- * Hot and humid conditions very likely at isolated places over Gujarat state, Konkan & Goa.



06th April (Day 4):

- Heavy rainfall likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka.
- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 50 kmph) likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka, Sub-Himalayan West Bengal & Sikkim.
- **Heat wave conditions** likely at isolated places over West Rajasthan and Gujarat state.
- Hot and humid conditions likely at isolated places over Gujarat state, Konkan & Goa.



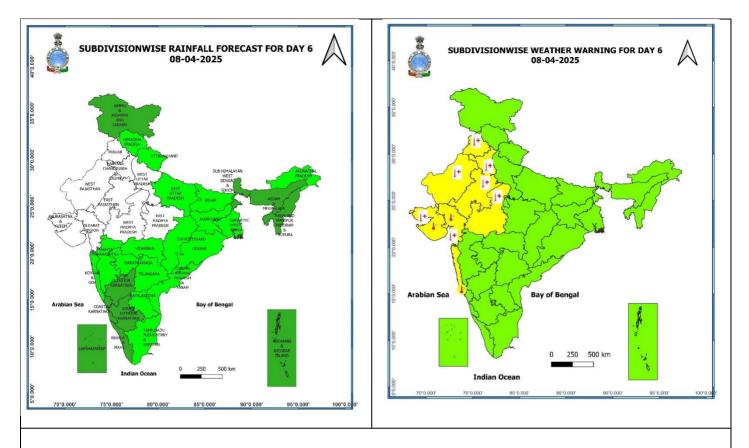
07th April (Day 5):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 50 kmph) likely at isolated places over West Bengal & Sikkim; with lightening at Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- Heat wave conditions likely at isolated places over Punjab, Haryana-Chandigarh-Delhi, Rajasthan, West Madhya Pradesh and Gujarat state.
- **Hot and humid conditions** likely at isolated places over Gujarat state, Konkan & Goa.



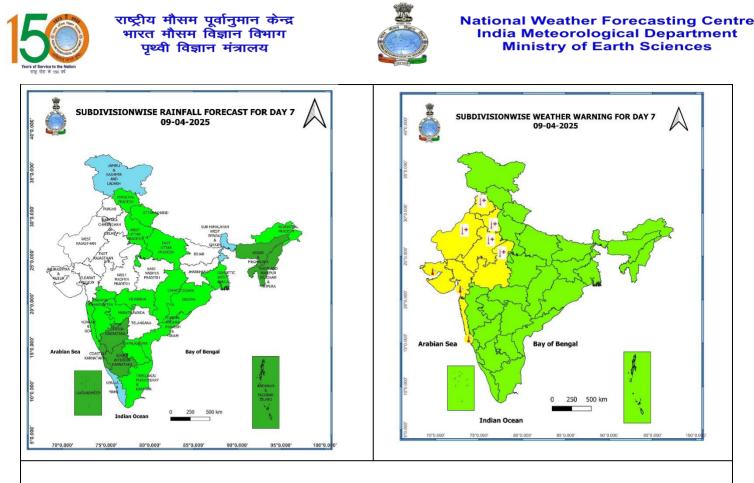


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08th April (Day 6):

- Heat wave conditions likely at isolated places over Punjab, Haryana-Chandigarh-Delhi, Rajasthan, West Madhya Pradesh and Gujarat state.
- Hot and humid conditions likely at isolated places over Gujarat state, Konkan & Goa.



09th April (Day 7):

- Heat wave conditions likely at isolated places over Punjab, Haryana-Chandigarh-Delhi, Rajasthan, West Madhya Pradesh and Gujarat state.
- Hot and humid conditions likely at isolated places over Gujarat state, Konkan & Goa.

Weather Outlook for subsequent 3 days (During 10th April- 12th April, 2025)

✤ Isolated to scattered rainfall likely over Western Himalayan Region and Northeast India, Chhattisgarh, Odisha, Vidarbha & Maharashtra and south peninsular India.

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. 2: Departure of Maximum Temperatures

Fig. 1: Maximum Temperatures

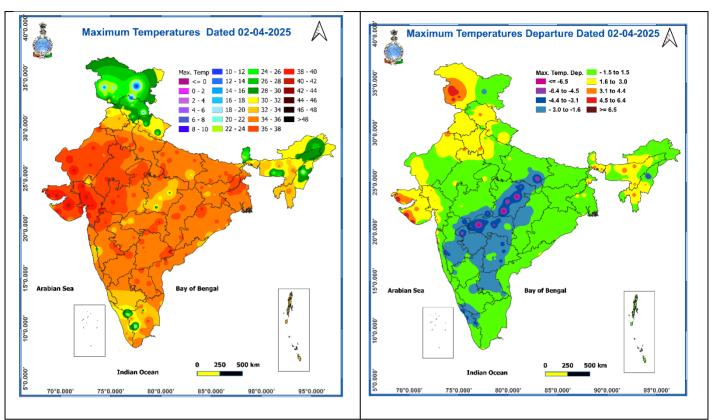
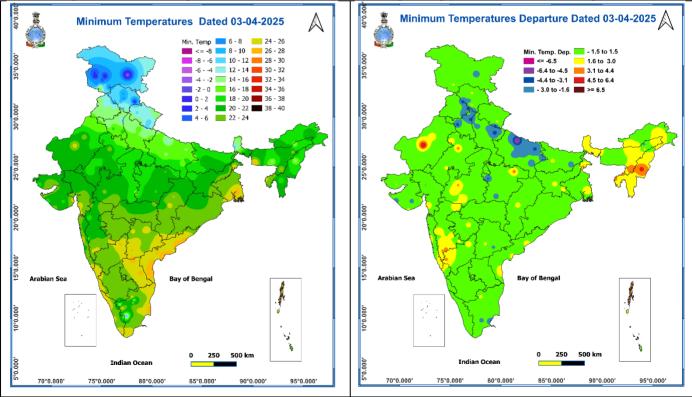


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)





Impact expected and action suggested due Heat Wave conditions at isolated/some pockets of Saurashtra & Kutch during 03rd-08th; in isolated pockets of West Rajasthan during 06th-09th; Gujarat Region during 06th-08th; East Rajasthan, Punjab, Haryana during 07th-09th April.

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.

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over central and adjoining North Peninsular India on 03rd & 04th April.

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 likely impact of Hailstorm / Heavy Rainfall / Gusty Winds / Heatwave

- In Jharkhand, East Rajasthan, Madhya Pradesh, Vidarbha, North Interior Karnataka and Telangana, immediately harvest the matured crops, fruits and vegetables and shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields to avoid the adverse impact of likely hailstorm. Use hail net and hail caps to prevent mechanical damage in orchards due to hailstorms.
- In Andaman & Nicobar Islands, Karnataka and North Eastern states, immediately harvest the matured crops, fruits and vegetables and shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Also make provision to drain out excess water from standing crop and vegetable fields.
- > In **Tamilnadu** and **Kerala**, drain out excess water from standing crop and vegetable fields.
- In Saurashtra & Kutch, apply light and frequent irrigation to standing crops in the evening to protect them from heat waves.
- > Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.

Livestock / Poultry / Fishery

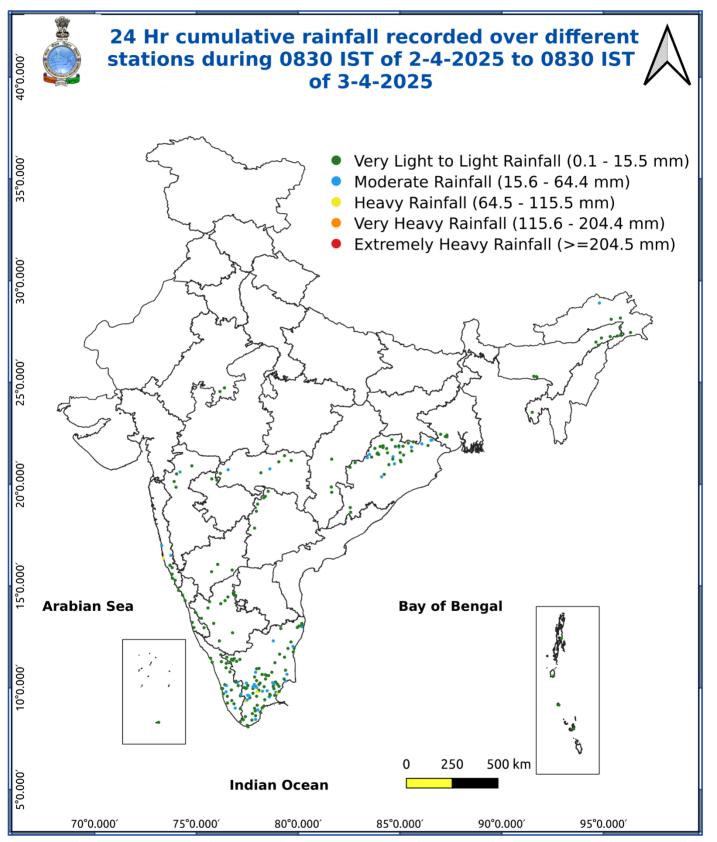
- > Keep the animals inside the shed during heavy rainfall/hailstorm and provide them balanced feed.
- > Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also provide clean, hygienic and plenty 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.





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



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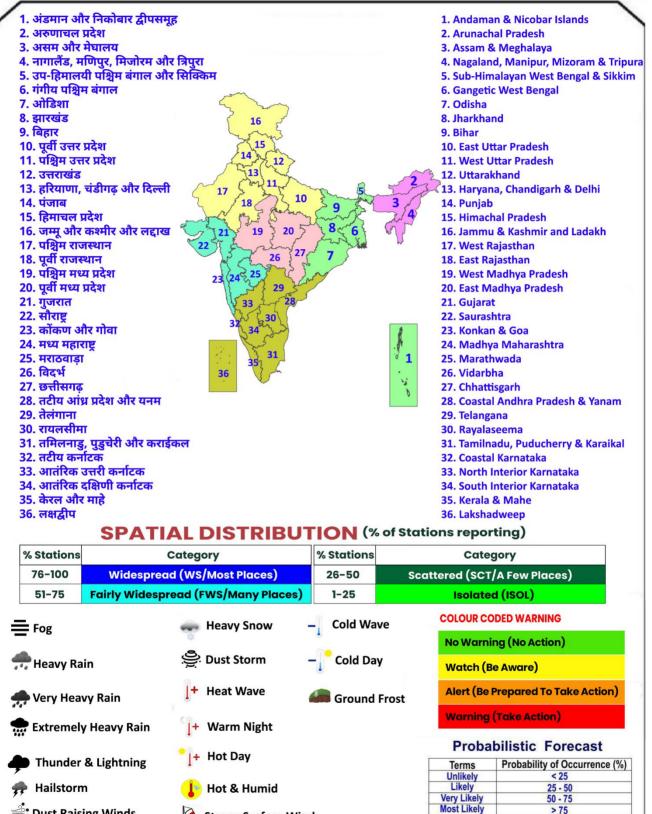
Sust Raising Winds



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> 75

LEGENDS



🔦 Strong Surface Winds





	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 *
Heat Wave	When maximum temperature of a station reaches $\ge 40^{\circ}$ C for plains and $\ge 30^{\circ}$ 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 ≥6.5° 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
Warm Night	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 °C.
Cold Wave	When minimum temperature of a station $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ 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
	(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 $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ C for hilly regions
Cold Day	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 ≤ -6.5 °C
Fog	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
	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
understorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling
understorm	sound (thunder)
Dust/Sand Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
Frost	Ice deposits on ground
	Air temperature ≤4°C (over Plains)
	A strong wind that rises suddenly, lasts for atleast 1 minute.
Squall	Moderate: Wind speed 52-61 kmph
	Severe: Wind speed 62-87 kmph
	Very Severe: Wind speed >87 kmph
Sea State	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
Contest and a second statements	
Cyclone	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)

Hot and Humid: When maximum temperatures remains 3°C above normal along with the above normal relative humidity.