



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Friday, April 11, 2025 Time of Issue: 0815 hours IST (MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and Warnings:

- The Low-pressure area over westcentral Bay of Bengal persisted at 0530 hrs IST of today, the 11th April, 2025 with the associated cyclonic circulation extending upto middle tropospheric levels. It is likely to move north-northeastwards and weaken gradually over central Bay of Bengal during next 24 hours. Under its influence squally weather wind speed reaching 35-45 Kmph gusting to 55 Kmph likely over central & northeast Bay of Bengal during next 12 hours.
- The Western Disturbance as a trough in westerlies in middle tropospheric levels runs roughly along Long. 70°E to the north of Lat. 24°N and another along Long. 84°E to the north of Lat. 21°N. An upper air cyclonic circulation lies over south Pakistan, 2nd over Punjab and 3rd over northwest Madhya Pradesh and a trough runs from west Rajasthan to north Vidarbha across East Rajasthan & northwest Madhya Pradesh in lower tropospheric levels.
- The upper air cyclonic circulations also lie over north Bangladesh, 2nd over Central parts of Assam and 3rd over northeast Assam in lower tropospheric levels and 04th over Sub-Himalayan West Bengal, Sikkim & neighbourhood in lower & middle tropospheric levels.

Under the influence of these systems:

- ✓ Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 40-50 kmph) likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 11th and Uttarakhand on 11th & 12th April.
- ✓ Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 40-50 kmph) likely over northeast and adjoining east India during next 7 days.
- ✓ Isolated to scattered rainfall accompanied with thunderstorm, lightning & gusty winds (speed 40-50 kmph) likely over plains of Northwest, Central and adjoining East India on 11th & 12th April.
- ✓ Heavy rainfall likely over Bihar on 11th; Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh on 11th & 12th April; Assam & Meghalaya during 11th-13th April.
- ✓ **Isolated Hailstorm** likely over Jammu-Kashmir, Himachal Pradesh, Uttarakhand and Punjab on 11th April.
- ✓ **Duststorm** very likely at isolated places over West Rajasthan on 11th April.
- ✓ Thundersquall (wind speed reaching 50-60 kmph) very likely at isolated places over Uttarakhand, Punjab and Sub-Himalayan West Bengal & Sikkim on 11th April.
- Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 30-40 kmph) likely over Kerala & Mahe during next 7 days and Lakshadweep during next 3 days. Isolated to Scattered light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 40-50 kmph) likely over Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka during next 5 days.

Temperature Forecast:

- Fall by 3-5°C in maximum temperatures likely over Northwest India during next 3 days and gradual rise by 2-4°C thereafter during subsequent 4 days.
- Fall by 2-4°C in maximum temperatures likely over Central India during next 3 days and no significant change thereafter during subsequent 4 days.
- Fall by 2-4°C in maximum temperatures likely over west India during next 3 days and gradual rise by 2-3°C thereafter during subsequent 4 days.
- ✤ No significant change over rest parts of the country.

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

✤ A fresh spell of Heat wave conditions likely at West Rajasthan from 14th to 16th, East Rajasthan, Haryana and Punjab on 16th April.





Main Weather Observations:

- Rainfall distribution (from 0830 hours IST to 1730 hours IST of yesterday): Light/moderate Rainfall observed at most places over Andaman & Nicobar Islands; at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim; a few places over Bihar, Assam & Meghalaya, Arunachal Pradesh, Lakshadweep; at isolated places over East Uttar Pradesh, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Odisha, Coastal Andhra Pradesh & Yanam, Uttarakhand.
- Significant amount of rainfall (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): Sub-Himalayan West Bengal & Sikkim: Gangtok -2; Jalpaiguri & Cooch Behar -1 each; Bihar: Patna & Purnea -4 each; Jharkhand: Daltonganj -3; Andaman & Nicobar Islands: Long Island & Mayabandar -3 each; Port Blair -2; East Uttar Pradesh: Sultanpur-3; Assam & Meghalaya: Goalpara-2; Shillong, Chaparmukh -1each; East Uttar Pradesh: Gorakhpur & Baharaich -1 each;
- Yesterday, **Heat wave conditions** prevailed at isolated places over Rajasthan, south Haryana.
- Minimum Temperature Departures (as on 10-04-2025): Minimum temperatures were markedly above normal (5.1°C or more) at most places over Delhi; at a few places over Punjab and Haryana-Chandigarh; at isolated places over West Uttar Pradesh, West Rajasthan and Saurashtra & Kutch; appreciably above normal (3.1°C to 5.0°C) at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh; at a few places over Madhya Pradesh, East Rajasthan and Konkan & Goa; at isolated places over Uttarakhand, Gujarat Region, Madhya Maharashtra, Marathwada and Vidarbha; above normal (1.6°C to 3.0°C) at many places over Bihar; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Tamil Nadu, Puducherry & Karaikal. These were below normal (-3.0°C to -1.6°C) at isolated places over Karnataka and normal over rest parts of the country (Fig. 4). Yesterday, the lowest minimum temperature of 17.0°C was reported at Kheri (East Uttar Pradesh) over the plains of the country.
- Maximum Temperature Departures (as on 10-04-2025): Maximum Temperatures are markedly above normal (5.1°C or more) at isolated places over Madhya West Rajasthan, Vidarbha, Marathwada, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal and Gujarat state; appreciably above normal (3.1°C to 5.0°C) at few places over Punjab, Himachal Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, East Rajasthan, Assam & Meghalaya; above normal (1.6°C to 3.0°C) at isolated places over Coastal Andhra Pradesh & Yanam, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal and Konkan & Goa. These were appreciably below normal (-3.1°C to 5.0°C) at few places over Bihar; at isolated places over Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim; below normal (-3.0°C to -1.6°C) at many places over Andaman & Nicobar Islands; at isolated places over Odisha, Jharkhand, Kerala & Mahe and normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 46.5°C was reported at Nandurbar (Madhya Maharashtra) over the country.





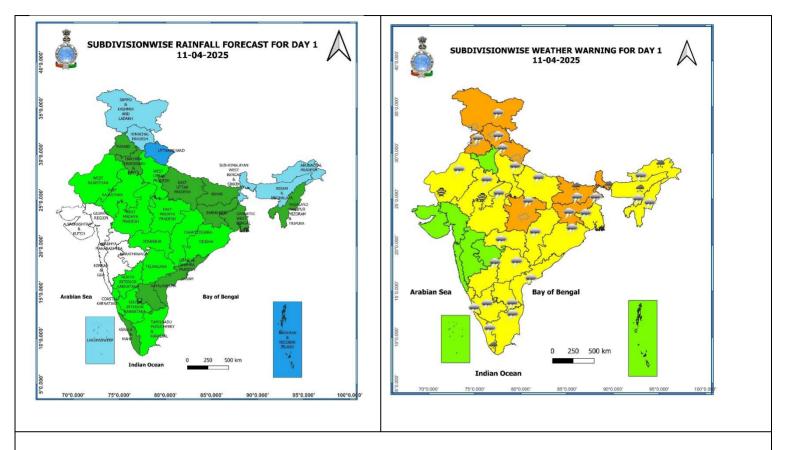
Meteorological Analysis (Based on 0530 hours IST)

- The Low-pressure area over westcentral Bay of Bengal with the associated cyclonic circulation extending upto middle tropospheric levels persisted over the same region at 0530 hrs IST of today, the 11th April, 2025. It is likely to move north-northeastwards and weaken gradually over central Bay of Bengal during next 12 hours.
- ✤ The Western Disturbance as a trough in westerlies in middle and upper tropospheric level with its axis at 5.8 km above mean sea level roughly along Long. 70°E to the north of Lat. 24°N persists.
- The upper air cyclonic circulation over Punjab & neighbourhood persists and now seen at 1.5 km above mean sea level.
- The upper air cyclonic circulation over south Pakistan adjoining southwest Rajasthan now lies over northwest Rajasthan & neighbourhood at 1.5 km above mean sea level.
- The upper air cyclonic circulation over northwest Madhya Pradesh & neighbourhood at 0.9 km above mean sea level persists.
- The trough from west Rajasthan to Marathwada across west Madhya Pradesh now runs from west Rajasthan to north Vidarbha across East Rajasthan & northwest Madhya Pradesh at 0.9 km above mean sea level.
- ✤ The trough in middle and upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 84°E and to the north of Lat. 21°N.
- The upper air cyclonic circulation over northeast Bihar now lies over Sub-Himalayan West Bengal, Sikkim & neighbourhood at 3.1 km above mean sea level.
- The upper air cyclonic circulation over south Assam now lies over Central parts of Assam at 0.9 km above mean sea level.
- The upper air **cyclonic circulation** over north Bangladesh at 0.9 km above mean sea level persists.
- The upper air cyclonic circulation over northeast Assam & neighbourhood at 1.5 km above mean sea level persists.



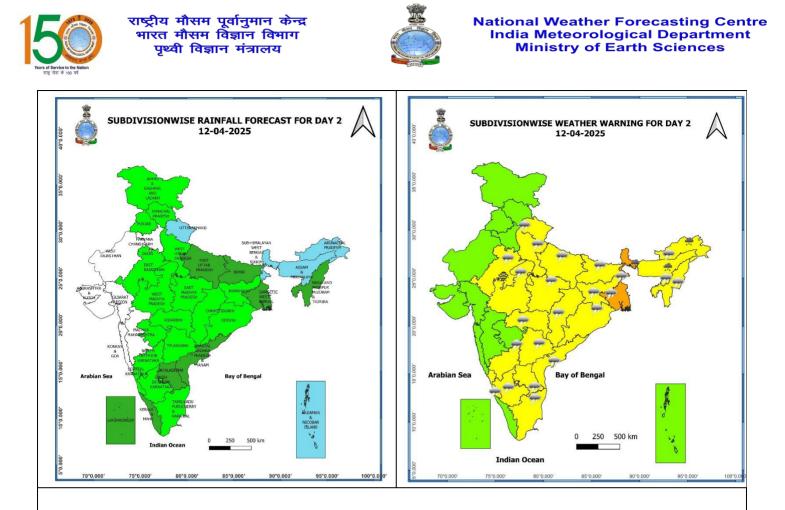


Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 18th April, 2025)



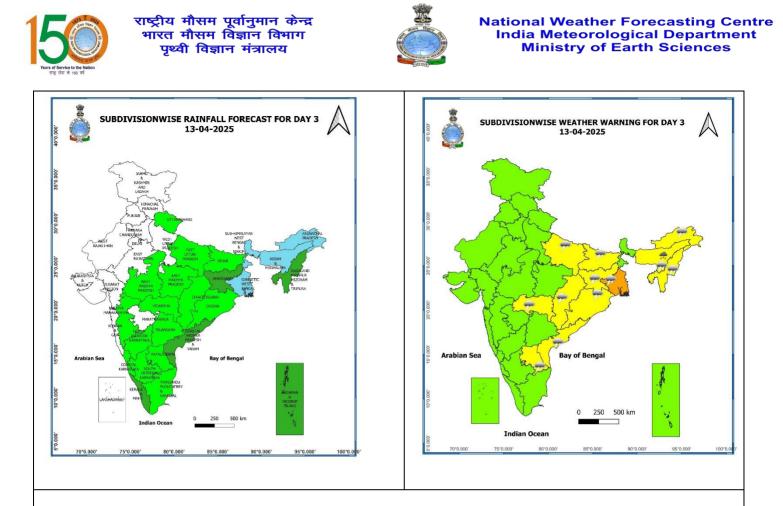
11th April (Day 1):

- Heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya and Kerala & Mahe.
- Thundersquall accompanied with lightning, gusty Winds (speed reaching 50 60 kmph) & hailstorm very likely at isolated places over Uttarakhand, Punjab; Thundersquall accompanied with lightning, gusty Winds (speed reaching 50 60 kmph) likely at isolated places over Sub-Himalayan West Bengal & Sikkim; Thunderstorm accompanied with lightning, gusty Winds (speed reaching 40 50 kmph) & hailstorm at isolated places over East Madhya Pradesh; with lightning & gusty Winds (speed reaching 30 40 kmph) & hailstorm at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh; with lightning & gusty Winds (speed reaching 40 50 kmph) at isolated places over East Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha and Assam & Meghalaya; with lightning & gusty Winds (speed reaching 30 40 kmph) at isolated places over West Uttar Pradesh, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana; with lightning at isolated places over Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal and Karnataka.
- **Duststorm** very likely at isolated places over Rajasthan.
- Squally weather with Wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over gulf of Mannar & adjoining Comorin area, along and off Tamil Nadu coast, along and off Sri Lanka coast and adjoining southwest Bay of Bengal. Squally Wind with Wind speed 45 kmph to 50 kmph gusting to 55 kmph likely to prevail along and off Oman coasts.



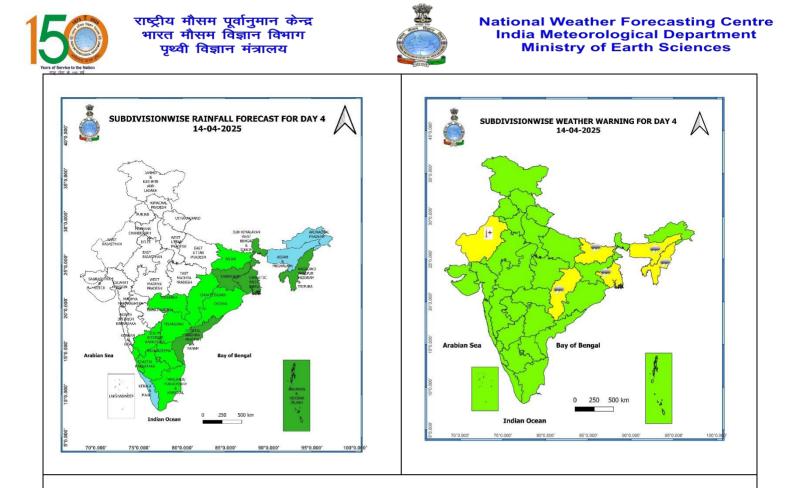
12th April (Day 2):

- Heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, and Kerala & Mahe.
- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40 50 kmph) at isolated places over East Uttar Pradesh, East Madhya Pradesh, West Bengal & Sikkim, Jharkhand and Assam & Meghalaya; with lightning & gusty winds (speed reaching 30 - 40 kmph) at isolated places over East Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana; with lightning at isolated places over East Rajasthan, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal and Karnataka.
- * **Duststorm** very likely at isolated places over east Rajasthan.
- Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over Gulf of Mannar & adjoining Comorin area.



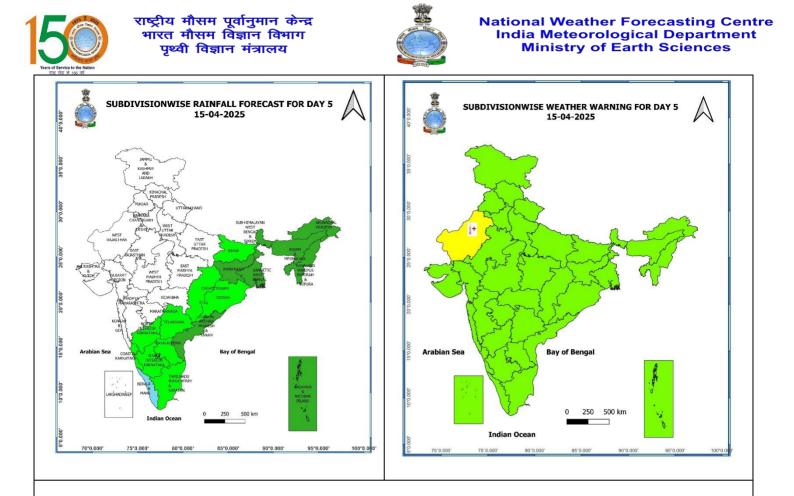
13th April (Day 3):

- Heavy rainfall very likely at isolated places over Assam & Meghalaya.
- Thundersquall accompanied with lightning, gusty winds (speed reaching 50 60 kmph) likely at isolated places over Gangetic West Bengal; Thunderstorm accompanied with lightning, gusty winds (speed reaching 40 - 50 kmph) at isolated places over Coastal Karnataka, Assam & Meghalaya; with lightning & gusty winds (speed reaching 30 - 40 kmph) at isolated places over East Uttar Pradesh , Bihar, Jharkhand, Odisha, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam; with lightning at isolated places over Vidarbha and Arunachal Pradesh.
- Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over Gulf of Mannar; adjoining Comorin area. Fishermen are advised not to venture into these areas.



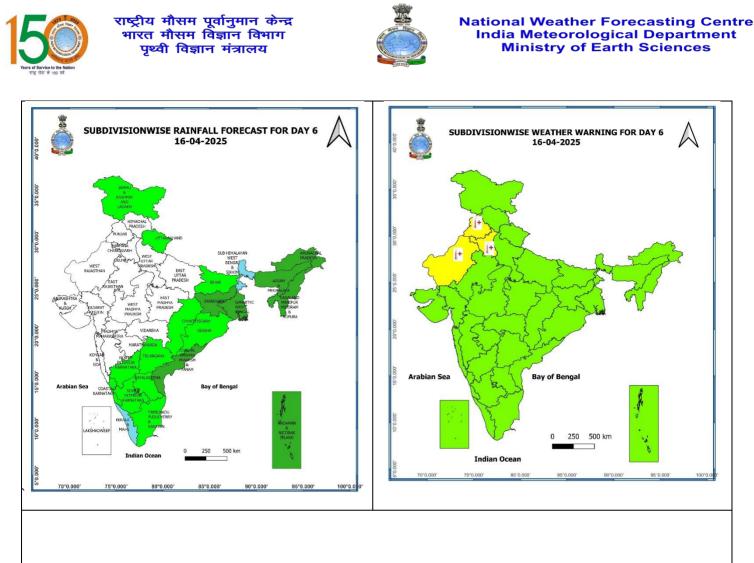
14th April (Day 4):

- **Heat wave conditions** very likely in isolated pockets over west Rajasthan.
- Thundersquall accompanied with lightning, gusty winds (speed reaching 40 50 kmph) at isolated places over Assam & Meghalaya, Gangetic West Bengal; with lightning & gusty winds (speed reaching 30 - 40 kmph) at isolated places over Bihar, Chhattisgarh and Nagaland, Manipur, Mizoram & Tripura.



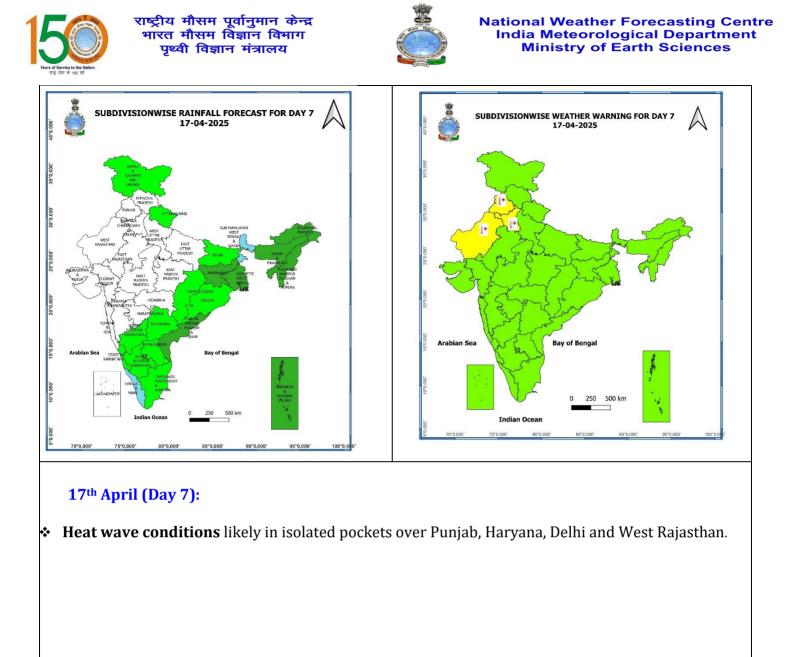
15th April (Day 5):

• Heat wave conditions likely in isolated pockets over West Rajasthan.



16th April (Day 6):

• Heat wave conditions likely in isolated pockets over Punjab, Haryana, Delhi and West Rajasthan.



Weather Outlook for subsequent 3 days (During 18th April- 20th April, 2025)

 Isolated to scattered rainfall likely over Western Himalayan region, East & Northeast India, 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.





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Fig. 2: Departure of Maximum Temperatures

Fig. 1: Maximum Temperatures

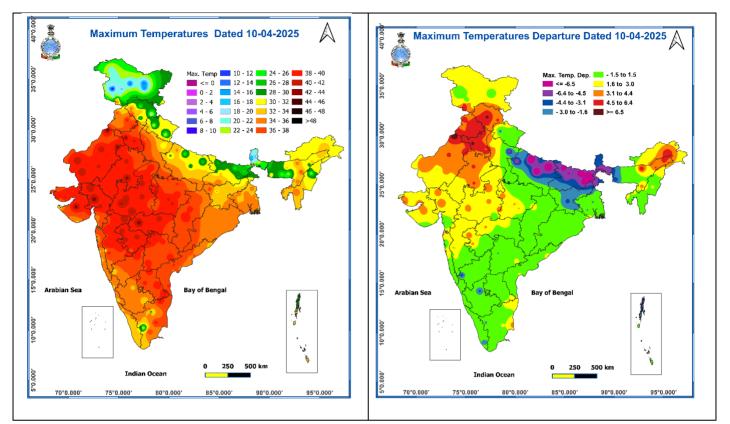
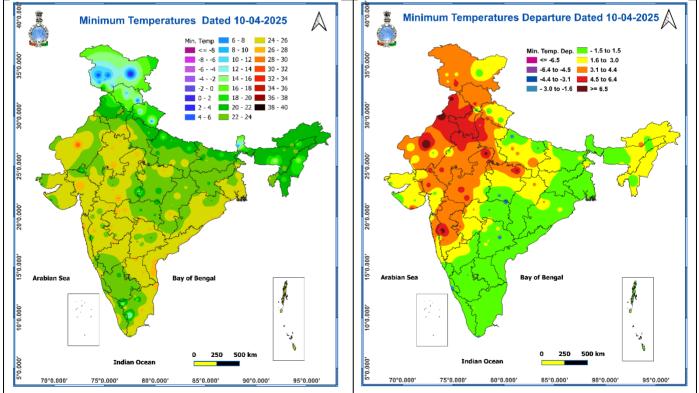


Fig. 3: Minimum Temperatures

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 to isolated thunderstorm with lightning/gusty winds & Hailstorm over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand and Punjab on 11th and Uttarakhand on 11th &12th 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 Assam & Meghalaya, Jharkhand, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, East Uttar Pradesh and East Madhya Pradesh, immediately 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 Arunachal Pradesh and Assam & Meghalaya, 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 Bihar, Sub Himalayan West Bengal & Sikkim, Tamil Nadu and Kerala, drain out excess water from standing crop and vegetable fields.
- In Madhya Pradesh and Gujarat State, 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

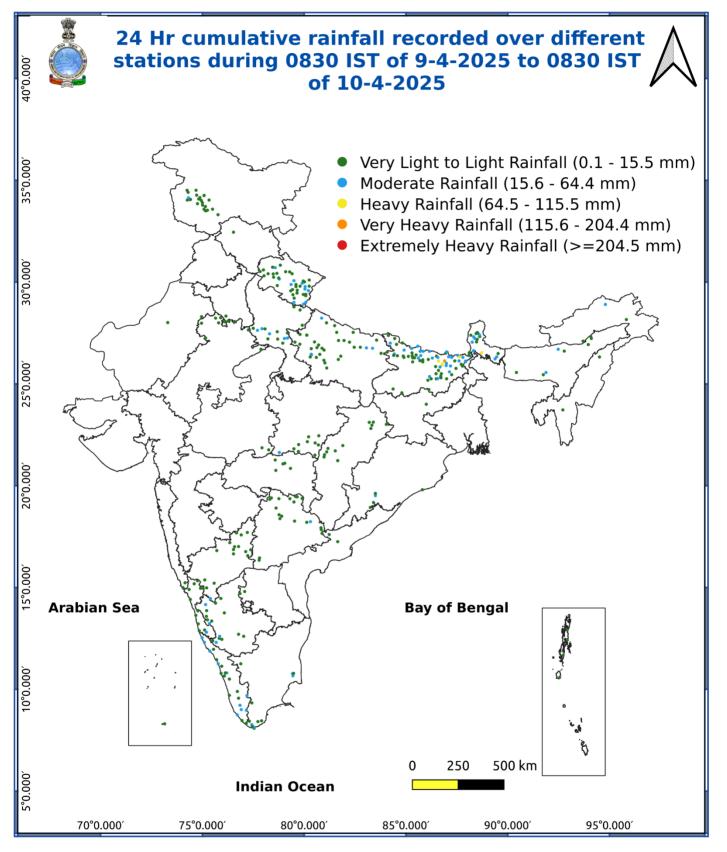
- > Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- > Store feed and fodder in a safe place to prevent spoilage.
- > To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass.
- > Also provide clean, hygienic and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



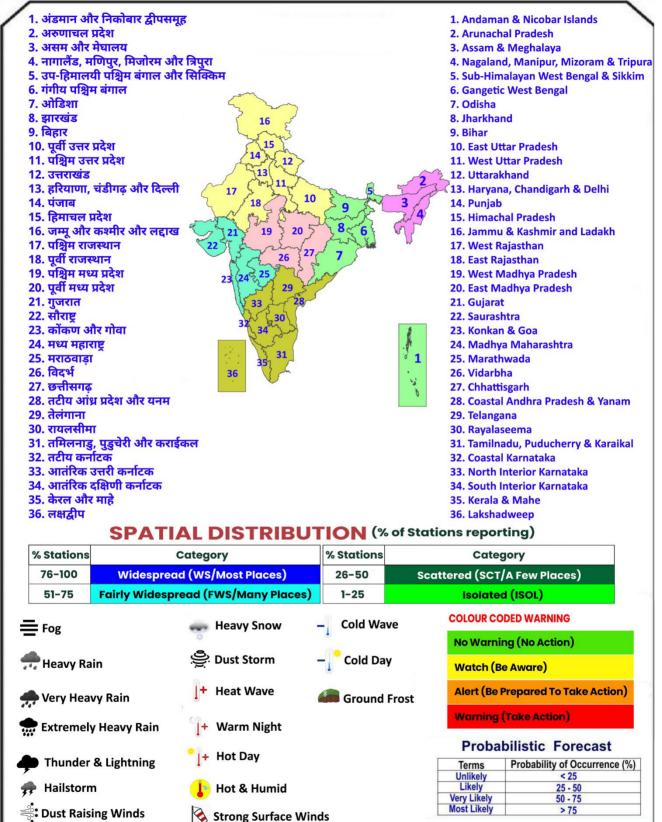
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LEGENDS







	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.