



### National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Sunday, April 6, 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 lay over east Bihar and the trough runs from east Bihar to east Vidarbha in lower tropospheric levels.
- The north-south trough runs from Marathwada to south Tamil Nadu across interior Karnataka in lower tropospheric level.
- An upper air cyclonic circulation lies over South Interior Karnataka in lower tropospheric level.
- 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 Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam on 06<sup>th</sup>; Kerala & Mahe on 06<sup>th</sup> & 07<sup>th</sup>; Karnataka during 06<sup>th</sup> -08<sup>th</sup>; East and Northeast India during 06<sup>th</sup>-10<sup>th</sup> April.
  - ✓ **Isolated Hailstorm** likely over Gangetic West Bengal, Assam & Meghalaya on 06th and over Bihar on 09th April.
  - ✓ Heavy rainfall very likely at isolated places over Tamil Nadu Puducherry & Karaikal, Kerala & Mahe on 06<sup>th</sup> and over Assam & Meghalaya on 09<sup>th</sup> & 10<sup>th</sup> April.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan region from 08th April, 2025.
  - ✓ Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 30-40 kmph) likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and isolated to scattered rainfall over Himachal Pradesh and Uttarakhand on 09<sup>th</sup> & 10<sup>th</sup> April.
  - ✓ Isolated Hailstorm likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 09th April.
- The upper air cyclonic circulation over southeast Bay of Bengal & neighbourhood extends upto middle tropospheric levels.

  Under its influence, a Low Pressure Area likely to form over south Bay of Bengal during next 48 hours. Under its influence
  - ✓ Fairly widespread to Widespread light/moderate rainfall likely over Andaman & Nicobar Islands during next 6-7 days. Isolated thunderstorm, lightning & gusty winds (speed 30-40 kmph) and heavy rainfall also likely on 06<sup>th</sup> April.
  - ✓ Squally weather with wind speed 35 45 kmph gusting to 55 kmph likely to prevail over Andaman Sea and over southeast Bay of Bengal & adjoining central Bay of Bengal **during 06th -09th April, 2025.**

#### **Temperature Forecast:**

- ❖ Gradual rise in maximum temperatures by 2-4°C likely over many parts of Northwest India, Maharashtra and South Peninsular India during next 4 days and fall by 2-3°C during subsequent 3 days.
- Gradual rise in maximum temperatures by 2-3°C likely over many parts of central India during next 4 days and no significant change during subsequent 3 days.
- No significant change in maximum temperatures likely over many parts of East India during next 2 days and fall by 2-3°C during subsequent 3 days and no significant change during subsequent 2 days.
- Rise in maximum temperatures by about 2°C likely over Gujarat during next 2 days and no significant change during subsequent 2 days and fall by 2-4°C during subsequent 3 days

## Heat wave and Hot & Humid weather warning:

- ❖ Heat wave conditions likely at isolated to few pockets over Gujarat state during 06<sup>th</sup>·10<sup>th</sup> April with severe heat wave conditions at isolated pockets over Saurashtra & Kutch on 06<sup>th</sup> & 07<sup>th</sup> April.
- ❖ Heat wave conditions likely over Rajasthan during 06<sup>th</sup>-10<sup>th</sup> April with severe heat wave conditions at isolated pockets on during 07<sup>th</sup>-09<sup>th</sup> April.
- Heat wave conditions very likely in isolated pockets of Himachal Pradesh on 06<sup>th</sup> & 07<sup>th</sup>; Haryana, Chandigarh during 06<sup>th</sup>-10<sup>th</sup>; Punjab during 07<sup>th</sup>-10<sup>th</sup>; Delhi on 07<sup>th</sup> & 08<sup>th</sup>; West Uttar Pradesh during 07<sup>th</sup>-09<sup>th</sup>; Madhya Pradesh during 08<sup>th</sup>-10<sup>th</sup> April.
- ❖ Hot & humid weather is likely to prevail over coastal areas of Gujarat State and Konkan & Goa during 06th-09th April.







### **Main Weather Observations:**

- \* Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Coastal and North Interior Karnataka; at many places over Arunachal Pradesh, South Interior Karnataka; at a few places over Assam & Meghalaya, Kerala & Mahe, Lakshadweep; at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana.
- Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Tamil Nadu: Thirparappu (dist Kanyakumari) 7,Suralacode (dist Kanyakumari) 6,Pechiparai AWS (dist Kanyakumari), Pechiparai (dist Kanyakumari), Rasipuram (dist Namakkal),Virudhunagar (dist Virudhunagar) 5 each; Kerala & Mahe: Punalur (dist Kollam) 7, Laha Aws (dist Pathanamthitta) 6, Konni Arg (distPathanamthitta) 6, Kottayam (dist Kottayam) 5; Coastal Karnataka: Puttur Hms (dist Dakshina Kannada) 4; South Interior Karnataka: Agumbe Emo (dist Shivamogga) 5; Coastal Andhra Pradesh & Yanam: Chintalapudi (dist Eluru) 4, Prathipadu (dist Kakinada) 4, Narsipatnam (distAnakapalli) 4.
- ❖ Yesterday, **Heatwave conditions** prevailed at isolated pockets over Himachal Pradesh, Southwest Rajasthan and Saurashtra & Kutch.
- Minimum Temperature Departures (as on 06-04-2025): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over West Rajasthan; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at a few places over Himachal Pradesh, West Bengal & Sikkim; at isolated places over Punjab, Bihar, Jharkhand, West Madhya Pradesh, East Rajasthan, Odisha, Gujarat Region, Madhya Maharashtra, Telangana, Nagaland, Manipur, Mizoram & Tripura. These are appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Madhya Pradesh; below normal (-3.0°C to -1.6°C) at isolated places over Uttar Pradesh, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 15.8°C is reported at Bahraich (East Uttar Pradesh) & Sidhi (East Madhya Pradesh) over the plains of the country.
- ★ Maximum Temperature Departures (as on 05-04-2025): Maximum Temperatures were markedly above normal (5.1°C or more) at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Himachal Pradesh and Saurashtra & Kutch; appreciably above normal (3.1°C to 5.0°C) at many places over Punjab; at a few places over Uttarakhand and West Rajasthan; at isolated places over Madhya Pradesh, Gujarat Region, Gangetic West Bengal and Odisha; above normal (1.6°C to 3.0°C) at many places over Jharkhand and Vidarbha; at a few places over Delhi, Konkan & Goa and Lakshadweep; at isolated places over Haryana-Chandigarh, Assam & Meghalaya and Coastal Andhra Pradesh & Yanam. These were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Tamil Nadu, Puducherry & Karaikal; below normal (-3.0°C to -1.6°C) at a few places over Andaman & Nicobar Islands, Telangana, Rayalaseema and North Interior Karnataka; at isolated places over Kerala & Mahe and near normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 44.0°C was reported at Kandla (Saurashtra & Kutch) over the country.





### National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

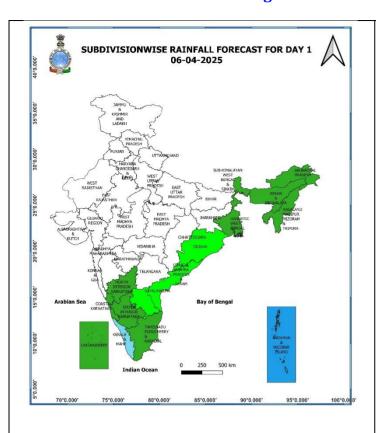
# Meteorological Analysis (Based on 0830 hours IST)

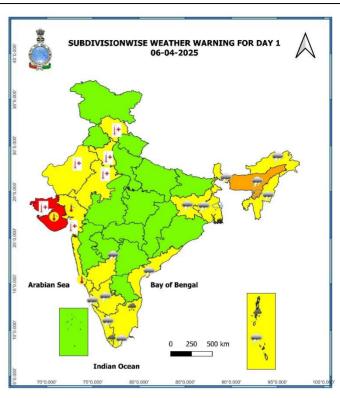
- An upper air **cyclonic circulation** lies over east Bihar & neighbourhood at 0.9 km above mean sea level.
- The **trough** from northeast Bihar to Vidarbha now runs from east Bihar to east Vidarbha embedded with the above cyclonic circulation over east Bihar across Jharkhand, Chhattisgarh and extends upto 1.5 km above mean sea level.
- ❖ The upper air **cyclonic circulation** lies over Chhattisgarh & neighbourhood at 0.9 km above mean sea level has merged with the above trough.
- ❖ The north-south **trough** from north Madhya Maharashtra to north Tamil Nadu now runs from Marathwada to south Tamil Nadu across interior Karnataka at 0.9 km above mean sea level.
- An upper air **cyclonic circulation** lies over South Interior Karnataka & neighbourhood at 1.5 km above mean sea level.
- ❖ The upper air **cyclonic circulation** over southeast Bay of Bengal & neighbourhood persists and now extends upto 5.8 km above mean sea level. Under its influence, a Low Pressure Area likely to form over south Bay of Bengal during next 48 hours.
- ❖ A fresh **Western Disturbance** is likely to affect Western Himalayan region from 08<sup>th</sup> April, 2025.
- ❖ The **Western Disturbance** as a trough in westerlies with its axis at 5.8 km above mean sea level roughly along Long. 85°E to the north of Lat. 25°N has moved away east-northeastwards.
- The upper air **Cyclonic Circulation** over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level has become less marked.





# Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 13th April, 2025)



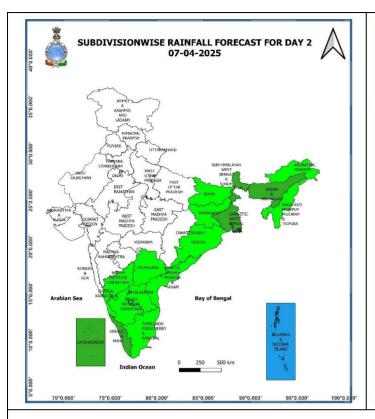


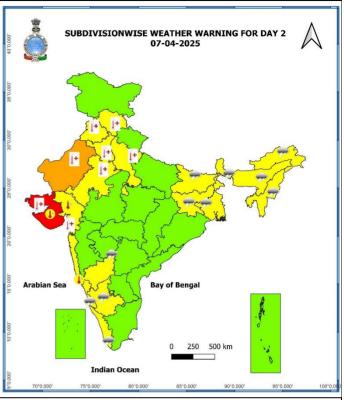
# 06th April (Day 1):

- Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal.
- ❖ Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 50 kmph) & Hailstorm very likely at isolated places over Gangetic West Bengal, Assam & Meghalaya; with lightning & gusty winds (speed reaching 40 50 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, South Interior Karnataka, Coastal Andhra Pradesh & Yanam; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Jharkhand, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, North Interior Karnataka; with lightning at isolated places over Tamil Nadu, Puducherry & Karaikal.
- Heat wave to severe Heat wave conditions very likely in some parts of Saurashtra & Kutch; Heat wave conditions in isolated pockets of Rajasthan, Gujarat Region, Himachal Pradesh, Haryana-Chandigarh.
- \* Hot and humid weather very likely in isolated pockets of Coastal areas of Gujarat state, Konkan & Goa.
- Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over Andaman sea and over southeast Bay of Bengal & adjoining Central Bay of Bengal. Fishermen are advised not to venture into these areas.







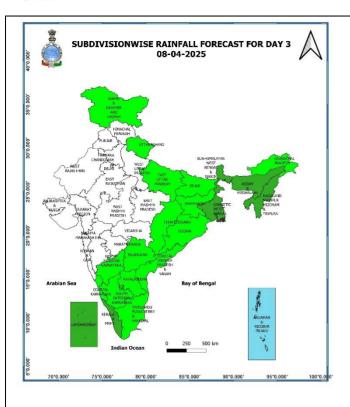


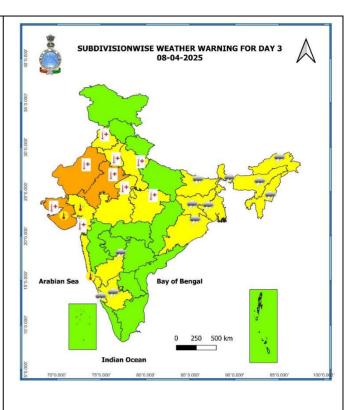
## 07th April (Day 2):

- ❖ Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 50 kmph) very likely at isolated places over Gangetic West Bengal, Bihar, South Interior Karnataka; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, North Interior Karnataka; with lightning at isolated places over Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Karnataka.
- ❖ Heat wave to severe Heat wave conditions very likely in some parts of Saurashtra & Kutch and West Rajasthan; Heat wave conditions in isolated pockets of East Rajasthan, Gujarat Region, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh.
- Hot and humid weather very likely in isolated pockets of Coastal areas of Gujarat state, Konkan & Goa.
- ❖ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over Andaman sea, and over southeast Bay of Bengal & adjoining Central Bay of Bengal. Fishermen are advised not to venture into these areas.



### National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

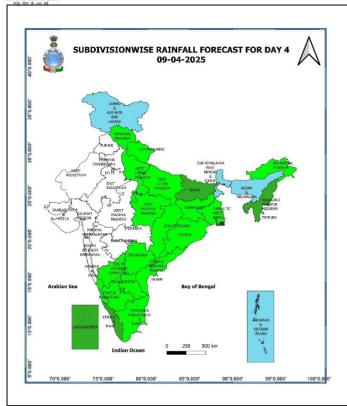


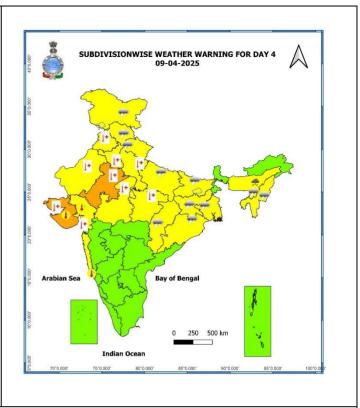


## 08th April (Day 3):

- ❖ Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 50 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, South Interior Karnataka; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Gangetic West Bengal, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya; with lightning at isolated places over Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, North Interior Karnataka.
- Heat wave to severe Heat wave conditions very likely in some parts of West Rajasthan and in isolated pockets over East Rajasthan; Heat wave conditions in isolated pockets of Gujarat state, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Madhya Pradesh.
- ❖ Hot and humid weather very likely in isolated pockets of Coastal areas of Gujarat state, Konkan & Goa.
- ❖ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over South Bay of Bengal & adjoining Central Bay of Bengal. Fishermen are advised not to venture into these areas.

### National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences



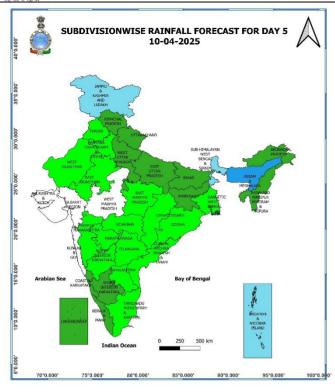


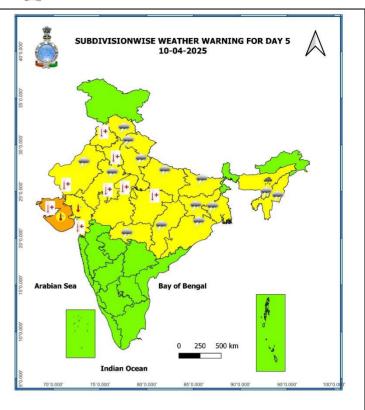
## 09th April (Day 4):

- ❖ Heavy rainfall likely at isolated places over Assam & Meghalaya.
- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 50 kmph) & Hailstorm very likely at isolated places over Bihar; Thunderstorm accompanied with lightning & gusty winds (speed reaching 30 40 kmph) & Hailstorm at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Himachal Pradesh, Uttarakhand, Jharkhand, Odisha, Chhattisgarh; with lightning at isolated places over East Uttar Pradesh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- Heat wave to severe Heat wave conditions likely in isolated pockets of East Rajasthan; Heat wave conditions in isolated pockets of Gujarat state, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, West Rajasthan, Madhya Pradesh.
- Hot and humid weather very likely in isolated pockets of Coastal areas of Gujarat state, Konkan & Goa.



### National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences



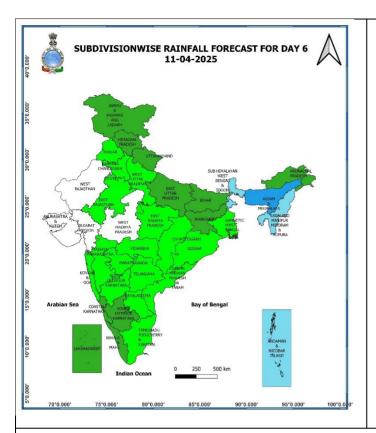


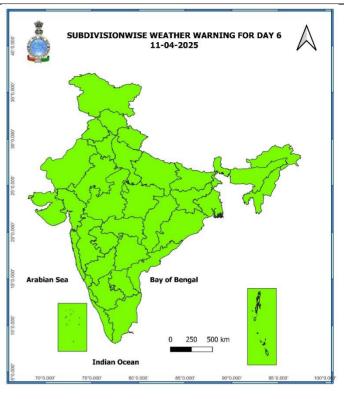
### 10th April (Day 5):

- ❖ **Heavy rainfall** likely at isolated places over Assam & Meghalaya.
- ❖ Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 50 kmph) likely at isolated places over West Uttar Pradesh, Bihar, Jharkhand; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Chhattisgarh, Odisha; with lightning at isolated places over East Uttar Pradesh, Vidarbha, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- Heat wave conditions in isolated pockets of Gujarat state, Punjab, Haryana-Chandigarh, Rajasthan, Madhya Pradesh.
- ❖ **Hot and humid weather** likely in isolated pockets of Coastal areas of Gujarat state.



## National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences



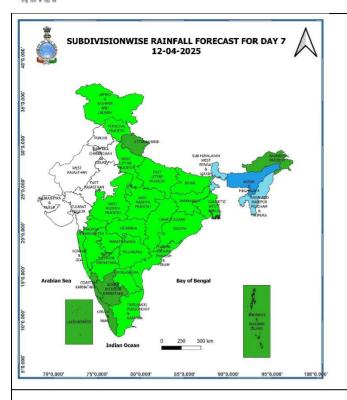


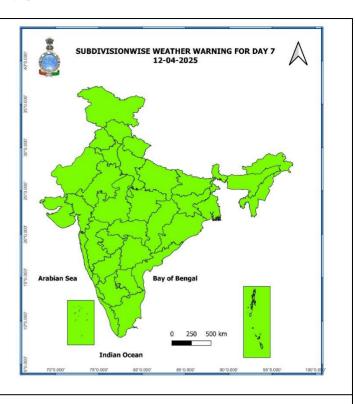
# 11<sup>th</sup> April (Day 6):

No weather warning.



### National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences





# 12th April (Day 7):

No weather warning.

# Weather Outlook for subsequent 3 days (During 13th April- 15th April, 2025)

❖ Isolated to scattered rainfall likely over East & Northeast India, south peninsular India.

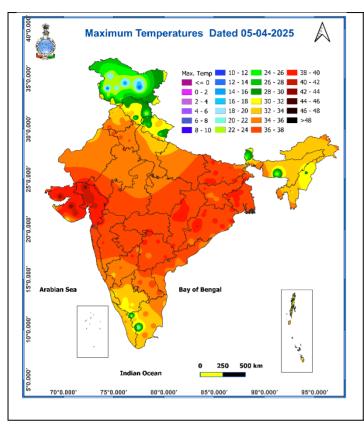
Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

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



Fig. 1: Maximum Temperatures

# Fig. 2: Departure of Maximum Temperatures



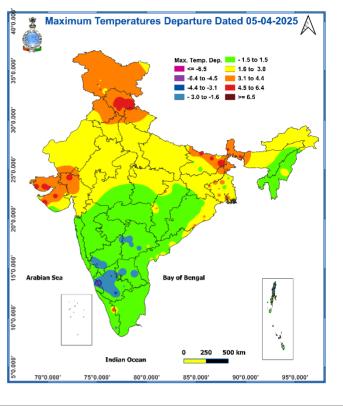


Fig. 3: Minimum Temperatures

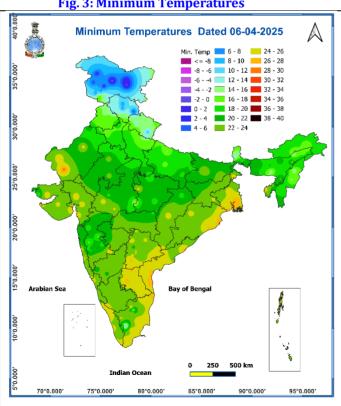
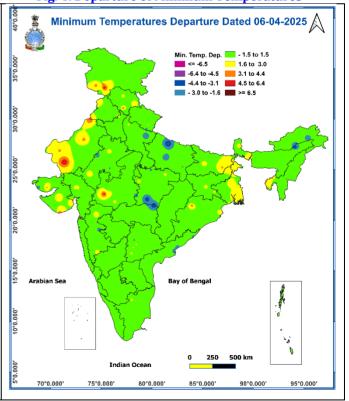


Fig. 4: Departure of Minimum Temperatures





### National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

## Impact expected and action suggested due to

- ❖ Heat Wave to severe heat wave conditions very likely to continue to prevail at isolated to few pockets of Saurashtra & Kutch during 06<sup>th</sup>-10<sup>th</sup>; West Rajasthan on 07<sup>th</sup> & 08<sup>th</sup>; East Rajasthan on 08<sup>th</sup> & 09<sup>th</sup> April.
- ❖ Heat wave conditions very likely in isolated pockets of Himachal Pradesh on 06<sup>th</sup> & 07<sup>th</sup>; Haryana-Chandigarh during 06<sup>th</sup> -10<sup>th</sup>; Delhi on 07<sup>th</sup> & 08<sup>th</sup>; Punjab during 07<sup>th</sup> & 10<sup>th</sup>; West Uttar Pradesh during 07<sup>th</sup> -09<sup>th</sup>; Madhya Pradesh during 08<sup>th</sup> -10<sup>th</sup> April.

### **Red alert Areas**

- Very high likelihood of developing heat illness and heat stroke in all ages.
- > Extreme care needed for vulnerable people.

## **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 Assam & Meghalaya and Gangetic West Bengal on 06th and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Bihar on 09th April, 2025.

## 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.





### National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

## Agromet advisories for likely impact of Hailstorm / Heavy Rainfall / Gusty Winds / Heatwave

- ✓ In **West Assam, Meghalaya, Bihar** and **Jammu & Kashmir,** 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 **Tamilnadu** and **Kerala**, drain out excess water from standing crop and vegetable fields.
- ✓ In **Andaman & Nicobar Islands** 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 Himachal Pradesh, Punjab, Haryana, West Uttar Pradesh, Rajasthan, 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.

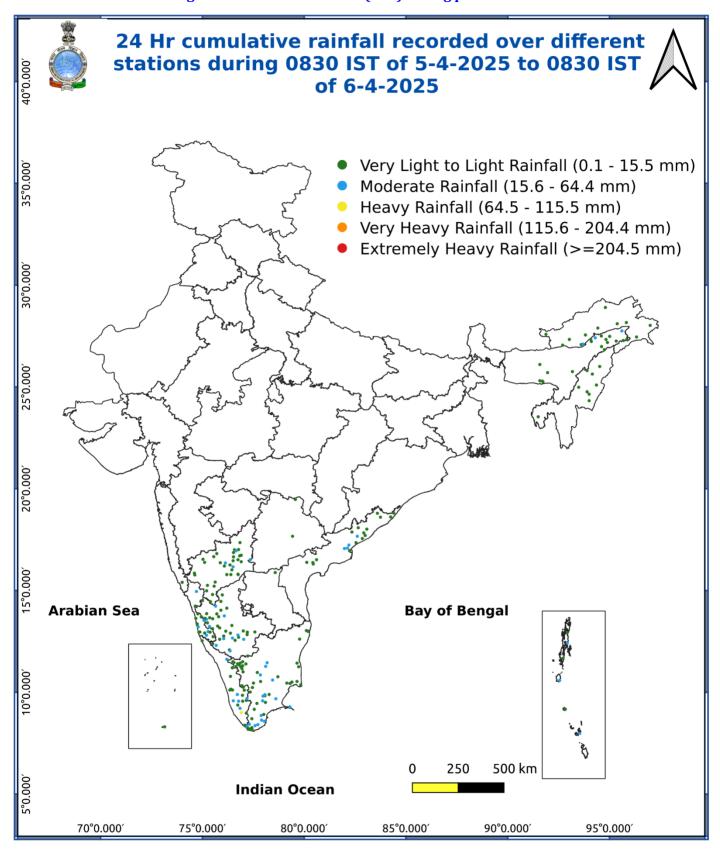
### Livestock / Poultry / Fishery

- ✓ 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.





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



30. रायलसीमा

32. तटीय कर्नाटक

35. केरल और माहे

S Dust Raising Winds

36. लक्षद्वीप

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक दक्षिणी कर्नाटक

31. तमिलनाडु, पुडुचेरी और कराईकल

## 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
- 32. Coastal Karnataka
- 33. North Interior Karnataka
- 34. South Interior Karnataka
- 35. Kerala & Mahe

Most Likely

> 75

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.
	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
Heat Wave	(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 Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
981	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
Fog	Moderate Fog: When the visibility between 500-200 metres
rog	Dense Fog: when the visibility between 50- 200 metres  Very Dense Fog: when the visibility < 50 metres
18 8000	very belief rog. when the visibility - 50 medes
hunderstorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
Dust/Sand Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
	Ice deposits on ground
Frost	Air temperature ≤4°C ( over Plains)
	Paris the Property of the Control of
Savell	A strong wind that rises suddenly, lasts for atleast 1 minute.  Moderate: Wind speed 52-61 kmph
Squall	Severe: Wind speed 62-87 kmph  Very Severe: Wind speed >87 kmph
	Effect of various waves in the sea over specific area
Sea State	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
	Cuclonic Storm: Wind speed 62.97 kmph /24.47 knots
	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)  Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)  Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
Cyclone	

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