



Saturday, March 29, 2025
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Temperature:

- ❖ Maximum Temperatures have fallen by 4-8°C over many parts of Jammu, Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh, Rajasthan, Northwest Madhya Pradesh, northeast Assam, Arunachal Pradesh; 1-3°C over many parts of East Uttar Pradesh, southwest & northeast Madhya Pradesh, Himachal Pradesh, Uttarakhand; risen by 3-7°C over Saurashtra & Kutch by 1-3°C Gujarat region, Madhya Maharashtra, interior Karnataka, Telangana, Kerala, Tamil Nadu, south coastal Andhra Pradesh, south Chhattisgarh, Odisha, west Bengal, Nicobar Islands, west Assam, Meghalaya and no significant change over rest parts of the country.
- ❖ Maximum Temperatures were in the range of 40-42°C over Vidarbha, southeast Uttar Pradesh, Chhattisgarh, Interior Odisha, Western parts of Gangetic West Bengal, southeast Jharkhand, North Telangana, Rayalaseema and 36-39°C over remaining parts of Uttar Pradesh, central, west, east and south peninsular India and 28-35°C over rest parts of the country except Kashmir and Ladakh where Temperatures were in the range of 06-16°C.

Weather Systems, Forecast and Warnings:

- ❖ **Strong Surface winds (20-30 kmph gusting to 40 kmph)** very likely at isolated places Northwest India on 29th March.
- ❖ A trough runs from Bihar to northeast Assam across Sub-Himalayan West Bengal & Sikkim in lower tropospheric levels. Under its influence:
- ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning** likely over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim on 29th March.
- ❖ A north-south trough runs from south Interior Karnataka to south Tamil Nadu in lower tropospheric levels. Under its influence:
- ✓ **Isolated to scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 30-50 kmph)** likely over Madhya Maharashtra, Konkan & Goa during 29th March to 01st April; Marathawada on 01st April; Kerala & Mahe, Tamilnadu Puducherry & Karaikal, Coastal Karnataka, South Interior Karnataka on 31st March & 01st April; Coastal Andhra Pradesh & Yanam during 30th March to 01st April.

Temperature Forecast:

- ❖ Gradual fall in maximum temperatures by 3-5°C likely over Northwest India (including Delhi) during next 24 hours and rise by 3-5°C gradually from 30th March onwards for subsequent 3 days.
- ❖ No significant change in maximum temperatures likely over East India during next 3 days with possibility of occurrence of heatwave conditions at isolated places over interior Odisha till 30th March.
- ❖ Gradual fall in maximum temperatures by 2-3°C likely over Central India during next 24 hours and no significant change during subsequent 3 days.
- ❖ No significant change in maximum temperatures over Maharashtra during next 2 days and fall by 2-3°C during subsequent 2 days.
- ❖ Rise in maximum temperatures by 2-3°C likely over Gujarat during next 5 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over some parts of south peninsular India during next 24 hours and no significant change during subsequent 3 days.

Heat wave and Hot & Humid weather warning:

- ❖ **Heat wave conditions very likely in isolated pockets of interior Odisha, Chhattisgarh, south Jharkhand, south Gangetic West Bengal on 29th & 30th March.**
- ❖ **Hot & humid weather conditions very likely to prevail in isolated pockets of Tamilnadu Puducherry & Karaikal on 29th; coastal areas of Gujarat during 30th March to 01st April**

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Sub-Himalayan West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): NIL.
- ❖ **Minimum Temperature Departures (as on 28-03-2025)**: Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places Himachal Pradesh, Uttar Pradesh, Bihar, Assam; **above normal (1.6°C to 3.0°C)** at most places over Arunachal Pradesh; at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Marathwada, Madhya Maharashtra; at isolated places over Madhya Pradesh, Vidarbha, Telangana, Nagaland, Manipur, Mizoram & Tripura. These were **markedly below normal (-5.1°C or less)** at isolated places over West Rajasthan; **below normal (-3.0°C to -1.6°C)** at isolated places over Saurashtra & Kutch, Chhattisgarh, Gangetic West Bengal and near normal over rest parts of the country (Fig. 4). Yesterday, the **lowest minimum temperature of 12.4°C** was reported at **Amritsar (Punjab)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 28-03-2025)**: Maximum Temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over East Uttar Pradesh and Gangetic West Bengal; at a few places over Bihar and Assam & Meghalaya; at isolated places over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; **above normal (1.6°C to 3.0°C)** at many places over East Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam and Telangana; at a few places over Chhattisgarh and Lakshadweep; at isolated places over Tamil Nadu, Puducherry & Karaikal and West Uttar Pradesh. These were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over East Rajasthan; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Punjab; **below normal (-3.0°C to -1.6°C)** at a few places over Gujarat state; at isolated places over West Madhya Pradesh and near normal over rest parts of the country (Fig. 2). Yesterday, the highest **maximum temperature of 43.0°C** was reported at **Rajnandgaon (Chhattisgarh) & Jharsuguda (Odisha)** over the country.

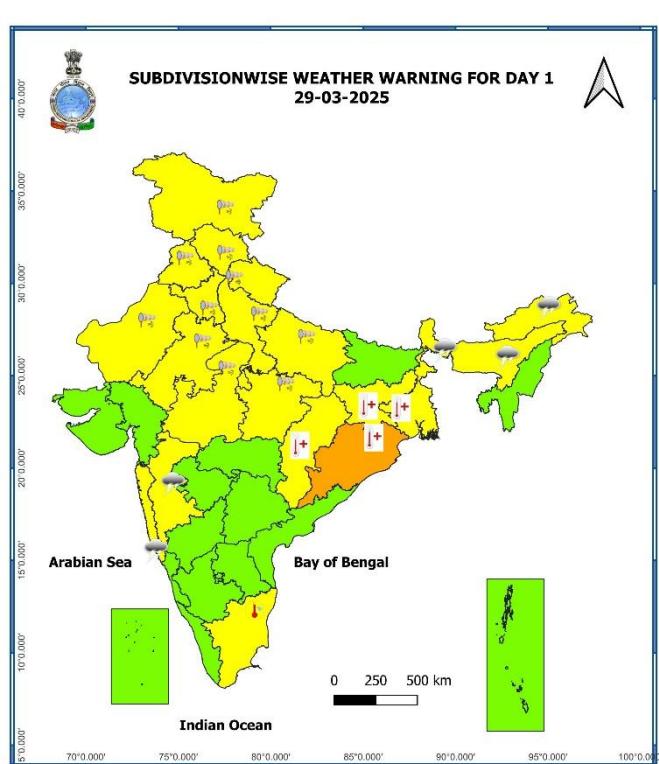
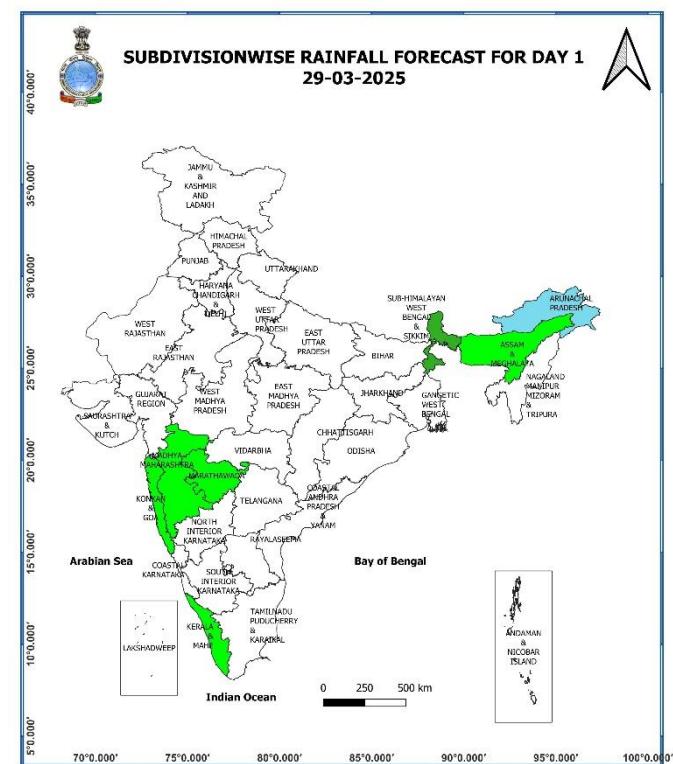


Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Western Disturbance** as a trough in middle & upper tropospheric levels with its axis at 5.8 km above mean sea level now runs roughly along Long. 73°E to the north of Lat. 33°N.
- ❖ The **trough** from Bihar to northeast Assam across Sub-Himalayan West Bengal & Sikkim at 0.9 km above mean sea level persists.
- ❖ The **trough** from south interior Karnataka to south Tamil Nadu at 0.9 km above mean sea level persists.

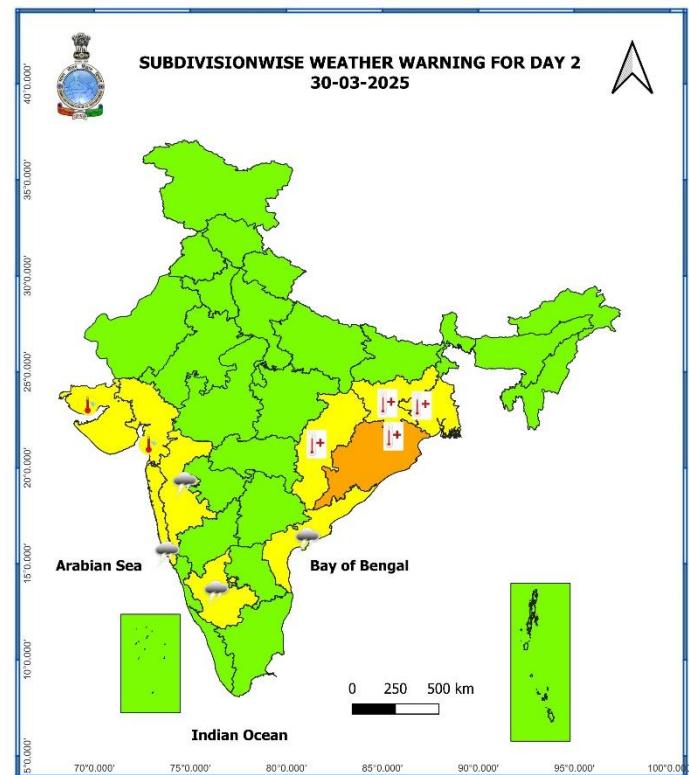
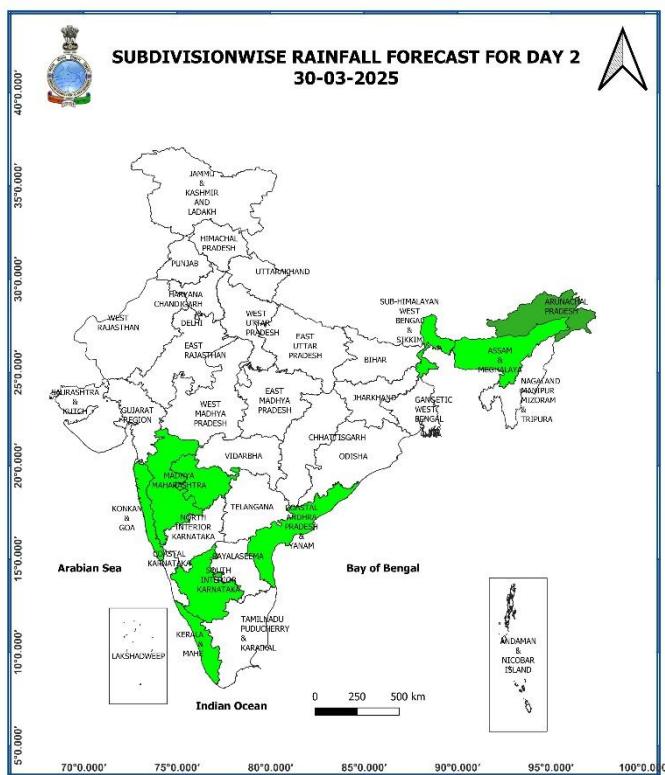


Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 05th April, 2025)



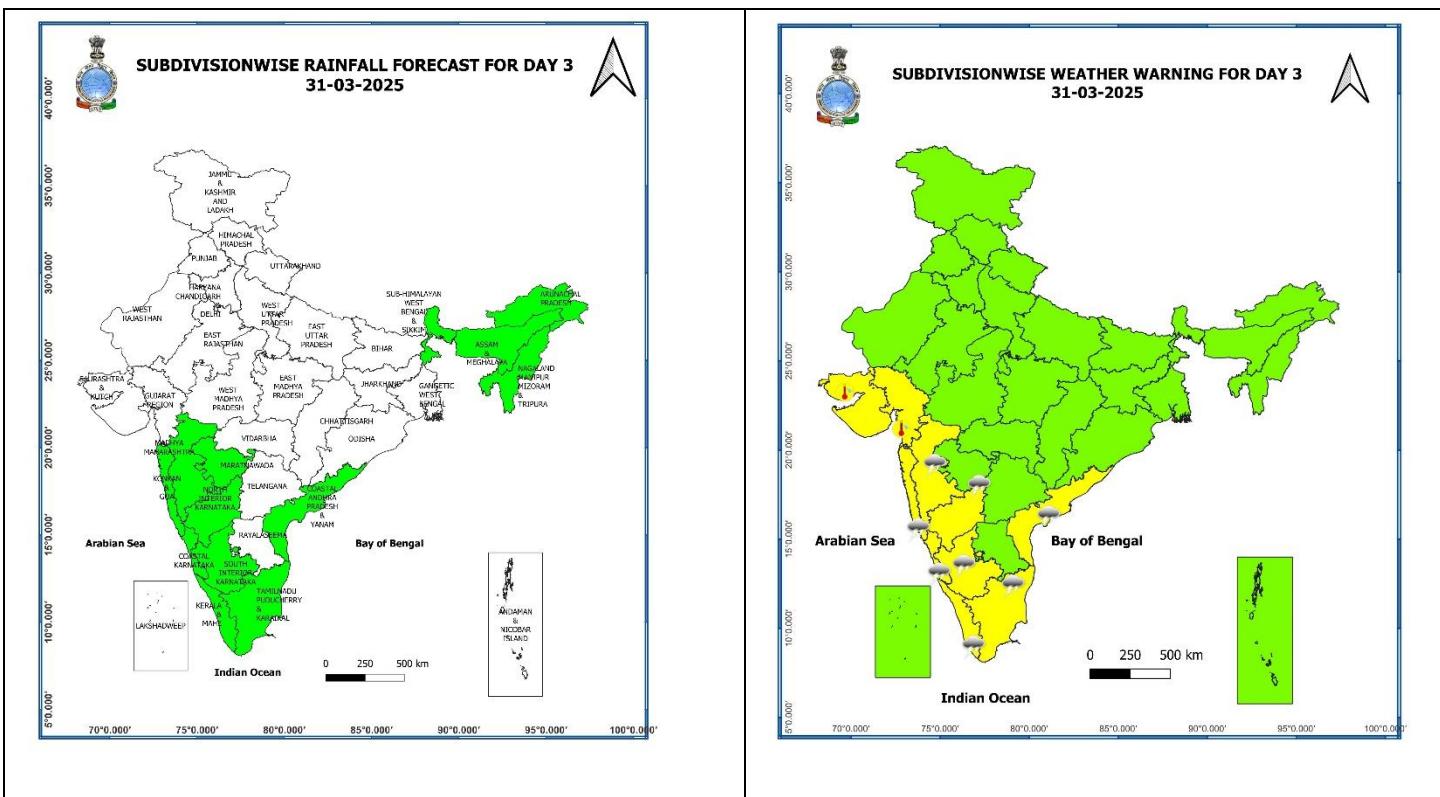
29th March (Day 1):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Sub-Himalayan West Bengal & Sikkim, Goa, Madhya Maharashtra; **with lightning** at isolated places over Arunachal Pradesh, Assam & Meghalaya.
- ❖ **Heat wave conditions** likely at isolated places over interior Odisha, Chhattisgarh, south Jharkhand, south Gangetic West Bengal.
- ❖ **Hot and Humid Conditions** likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- ❖ **Strong Surface winds (speed reaching 20 - 30 kmph gusting to 40 kmph)** very likely at isolated places over Northwest India and adjoining Madhya Pradesh.



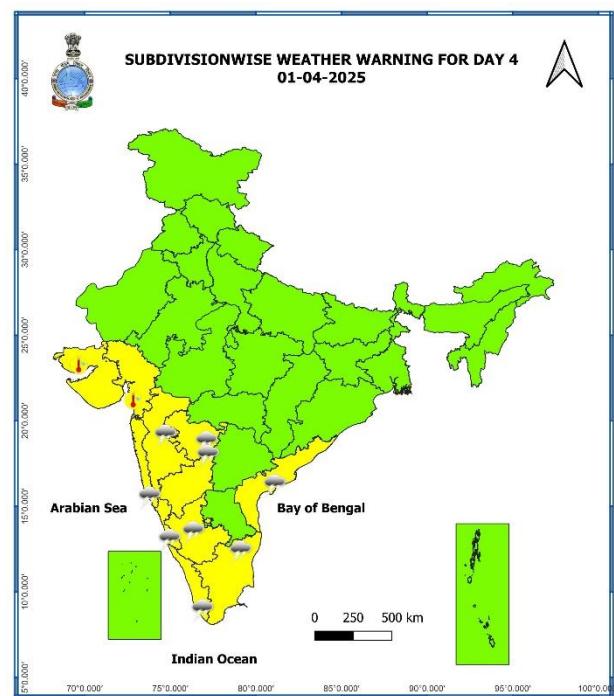
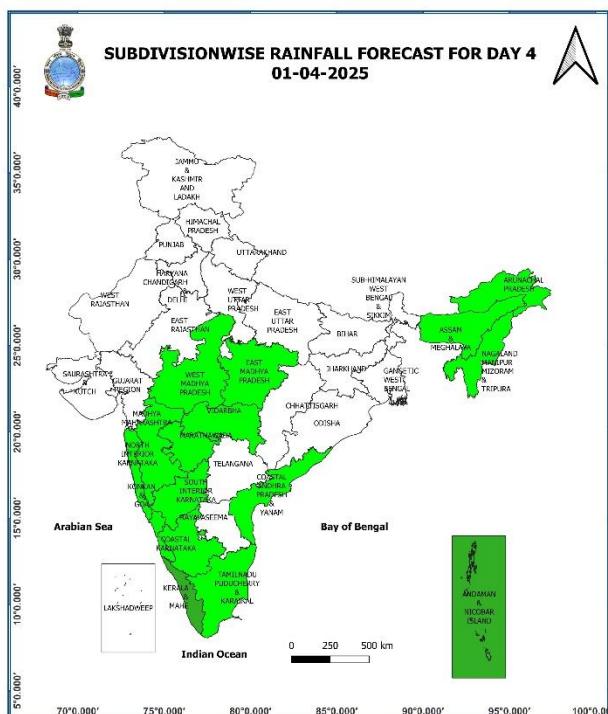
30th March (Day 2):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Konkan & Goa, Madhya Maharashtra; **with lightning** at isolated places over Coastal Andhra Pradesh & Yanam, South Interior Karnataka.
- ❖ **Heat wave conditions** likely at isolated places over interior Odisha, Chhattisgarh, south Jharkhand, south Gangetic West Bengal.
- ❖ **Hot and Humid Conditions** likely at isolated places over coastal areas of Gujarat state.



31st March (Day 3):

- ❖ **Thunderstorm accompanied with gusty winds (speed reaching 40 - 50 kmph) & lightning** very likely at isolated places over Madhya Maharashtra, North Interior Karnataka; **with gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Konkan & Goa, Coastal Andhra Pradesh & Yanam; with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Karnataka and South Interior Karnataka.
- ❖ **Hot and Humid Conditions** likely at isolated places over coastal areas of Gujarat state.

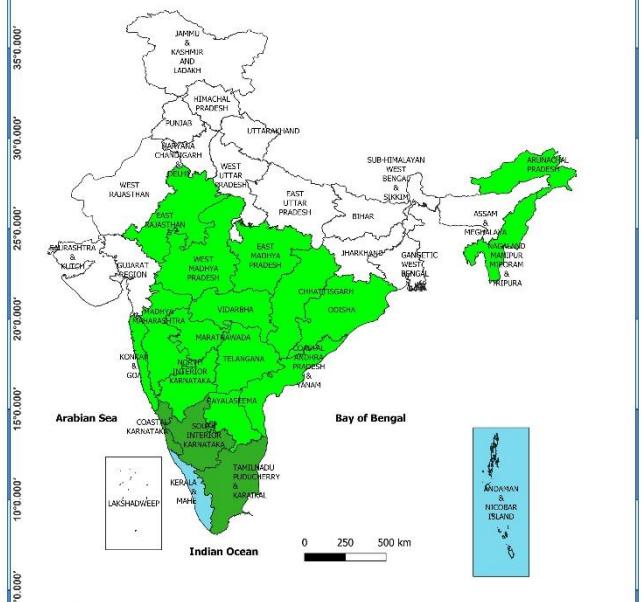


01st April (Day 4):

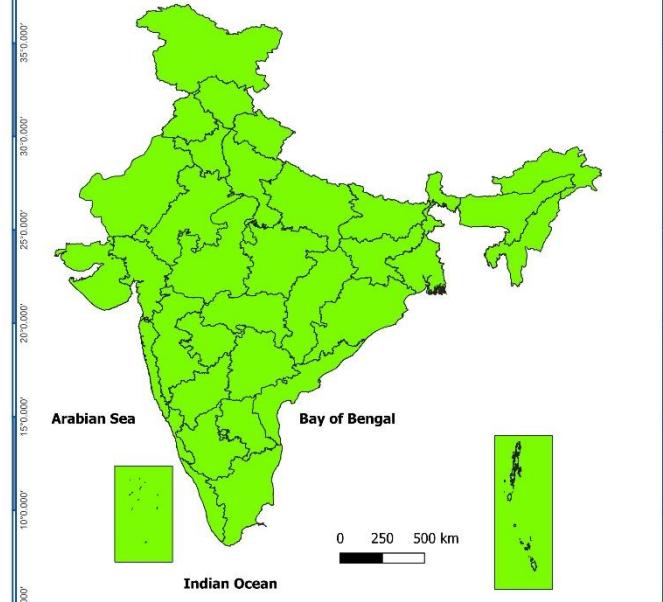
- ❖ **Thunderstorm accompanied with gusty winds (speed reaching 40 - 50 kmph) & lightning** very likely at isolated places over Madhya Maharashtra, Marathwada, North Interior Karnataka, South Interior Karnataka; **with gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Konkan & Goa, Kerala & Mahe, Coastal Andhra Pradesh & Yanam; with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka.
- ❖ **Hot and Humid Conditions** likely at isolated places over coastal areas of Gujarat state.



SUBDIVISIONWISE RAINFALL FORECAST FOR DAY 5
02-04-2025

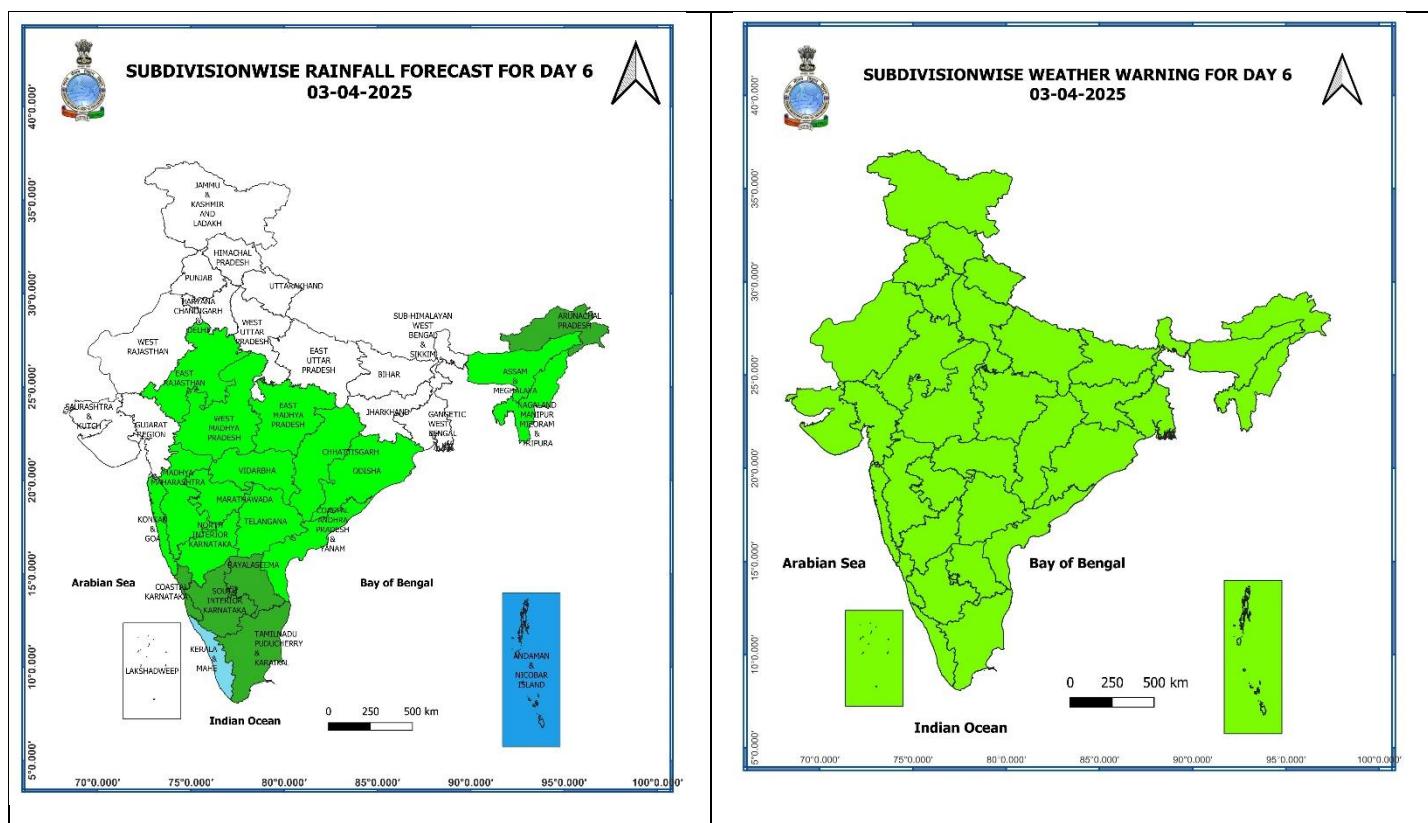


SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
02-04-2025



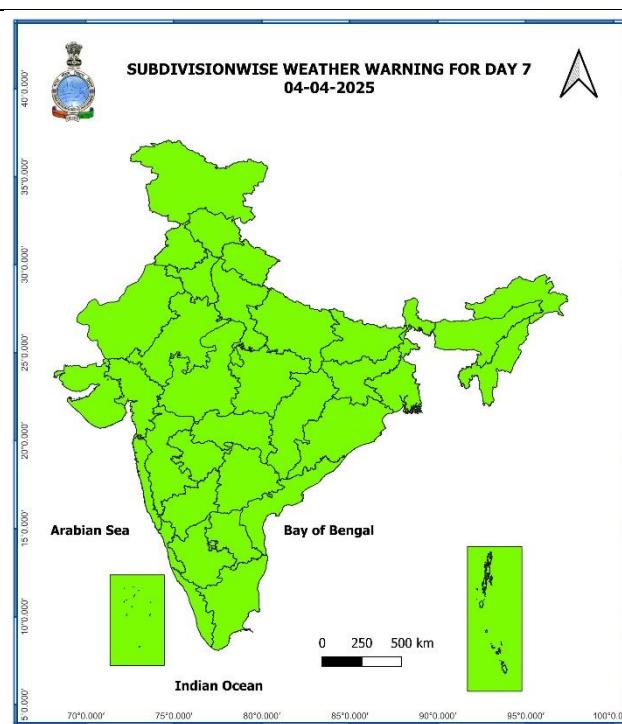
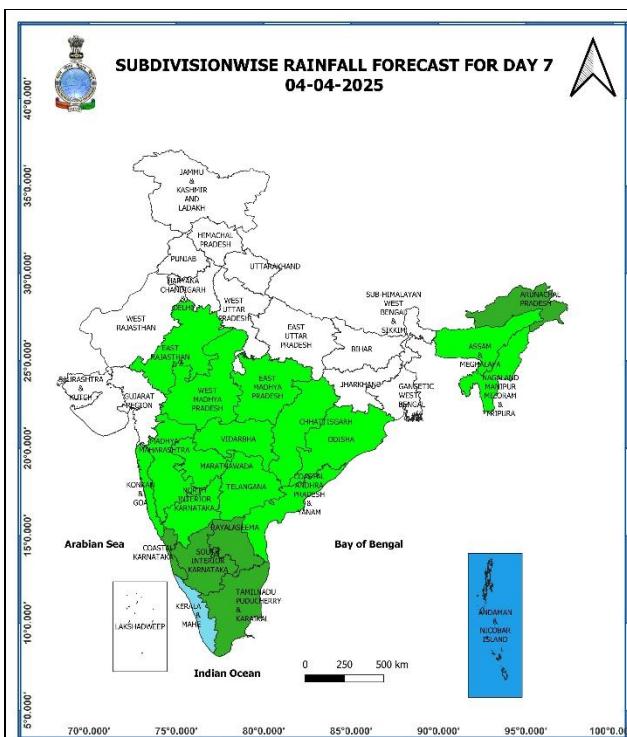
02nd April (Day 5):

❖ No warning.



03rd April (Day 6):

- ❖ No warning.



04th April (Day 7):

- ❖ **No warning.**

Weather Outlook for subsequent 3 days (During 05th April- 07th April, 2025)

- ❖ **Isolated to scattered rainfall** likely over central India, Arunachal Pradesh, Andaman & Nicobar Islands, Odisha 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. 1: Maximum Temperatures

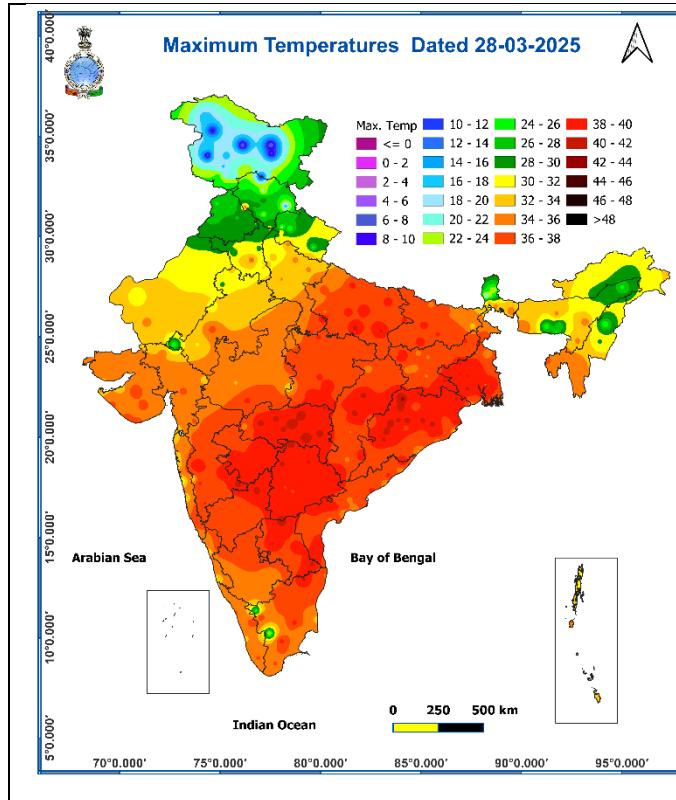


Fig. 2: Departure of Maximum Temperatures

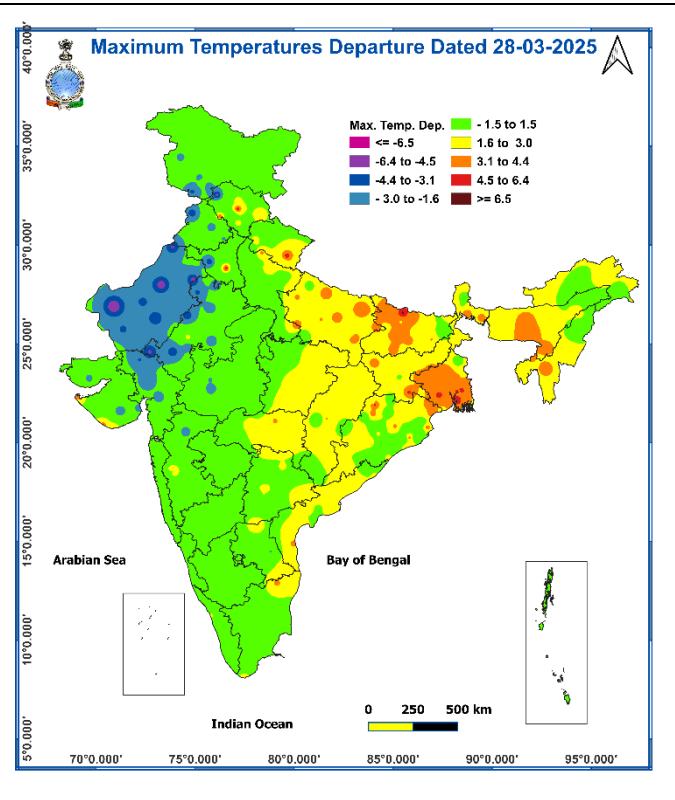


Fig. 3: Minimum Temperatures

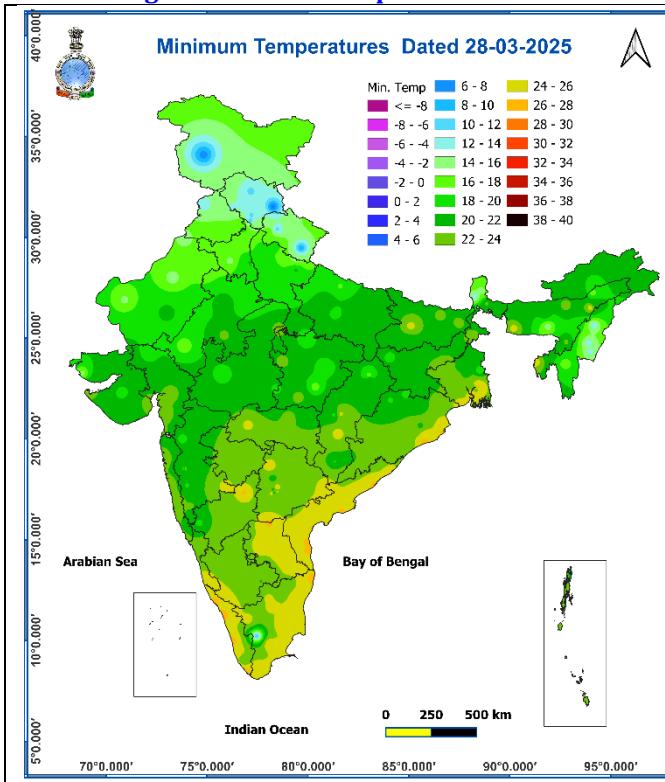
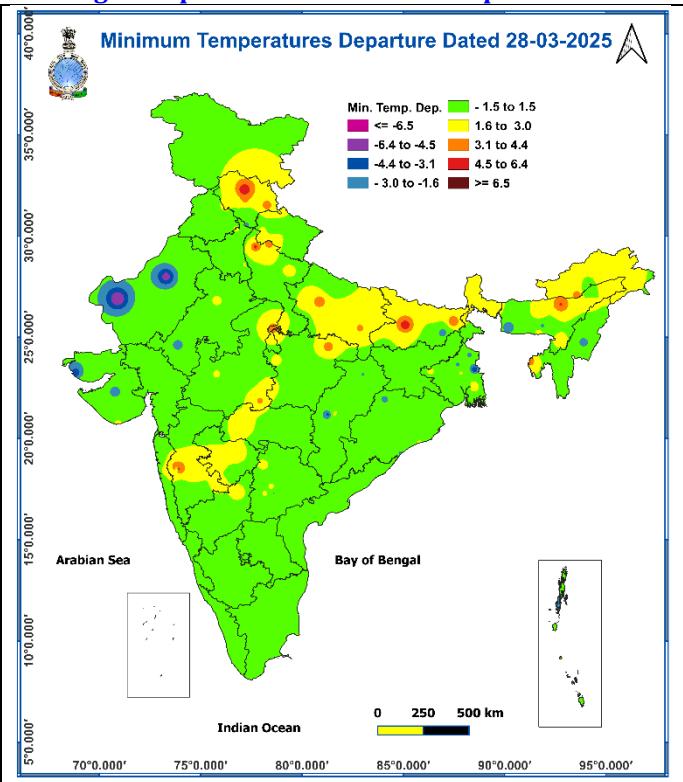


Fig. 4: Departure of Minimum Temperatures





Impact expected and action suggested due Heat Wave conditions over Odisha, Chhattisgarh, South Gangetic West Bengal and south Jharkhand on 29th & 30th March.

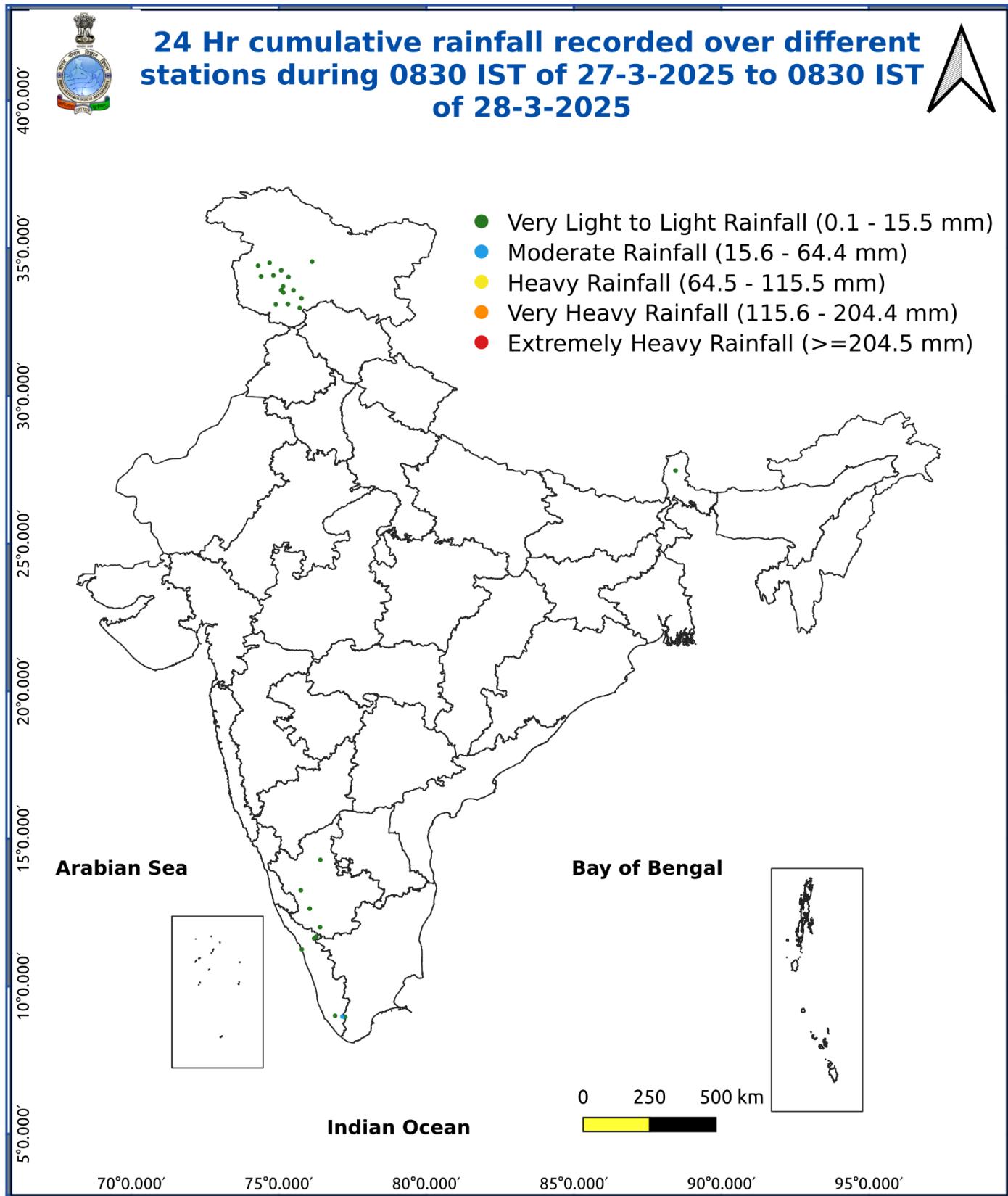
Orange alert Areas

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

Yellow alert Areas

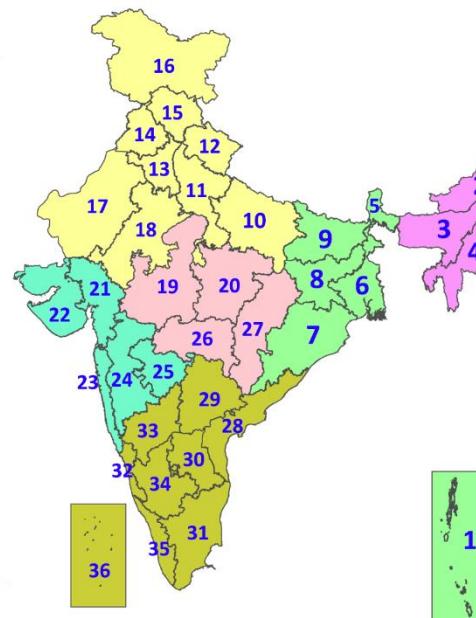
- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- Wear lightweight, light colour, loose, cotton clothes.
- Cover your head, use a cloth, hat or umbrella.

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



LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखण्ड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखण्ड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कॉकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आतंरिक उत्तरी कर्नाटक
34. आतंरिक दक्षिणी कर्नाटक
35. केरल और माहे
36. लक्ष्द्वीप



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. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. 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
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)		
51-75	Fairly Widespread (FWS/Many Places)		
26-50	Scattered (SCT/A Few Places)		
1-25	Isolated (ISOL)		



Heavy Snow

Dust Storm

Heat Wave

Warm Night

Hot Day

Hot & Humid

Strong Surface Winds

Cold Wave

Cold Day

Ground Frost

COLOUR CODED WARNING

No Warning (No Action)
Watch (Be Aware)
Alert (Be Prepared To Take Action)
Warning (Take Action)

Probabilistic Forecast

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

DEFINITION/CRITERIA

Rain/ Snow *

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

Heat Wave

When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions

(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .

Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

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

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

(c). Criteria for heat wave for coastal stations

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

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 $> 6.4^{\circ}\text{C}$.

Cold Wave

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

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .

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

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

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

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

(c) For Coastal Stations

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

Cold Day

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

Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

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

Fog

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

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres

Thunderstorm

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.

Frost

Ice deposits on ground

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

Squall

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

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

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.

* 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

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