

Friday, March 28, 2025  
Time of Issue: 2030 hours IST  
(NIGHT)

## 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 are 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 are 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 28<sup>th</sup> & 29<sup>th</sup> 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 28<sup>th</sup> & 29<sup>th</sup> 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 29<sup>th</sup> March to 01<sup>st</sup> April; Marathawada on 01<sup>st</sup> April; Kerala & Mahe, Tamilnadu Puducherry & Karaikal, Coastal Karnataka, South Interior Karnataka during 28<sup>th</sup>, 31<sup>st</sup> March & 01<sup>st</sup> April; Coastal Andhra Pradesh & Yanam during 30<sup>th</sup> March to 01<sup>st</sup> April.

#### Temperature Forecast:

- ❖ Gradual fall in maximum temperatures by 3-5°C likely over Northwest India (including Delhi) during next 2 days and rise by 3-5°C gradually from 30<sup>th</sup> March onwards for subsequent 3 days.
- ❖ Rise in maximum temperatures by 2-3°C likely over East India today and no significant change thereafter during next 3 days with possibility of occurrence of heatwave conditions at isolated places over interior Odisha till 30<sup>th</sup> March.
- ❖ Gradual fall in maximum temperatures by 2-3°C likely over Central India during next 2 days and no significant change during subsequent 3 days.
- ❖ No significant change in maximum temperatures over Maharashtra during next 3 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 2 days 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 during 28<sup>th</sup>-30<sup>th</sup> March, Chhattisgarh, south Jharkhand, south Gangetic West Bengal on 29<sup>th</sup> & 30<sup>th</sup> March.**
- ❖ **Hot & humid weather conditions very likely to prevail in isolated pockets of Tamilnadu Puducherry & Karaikal on 28<sup>th</sup> & 29<sup>th</sup>; coastal areas of Gujarat during 30<sup>th</sup> March to 01<sup>st</sup> April**

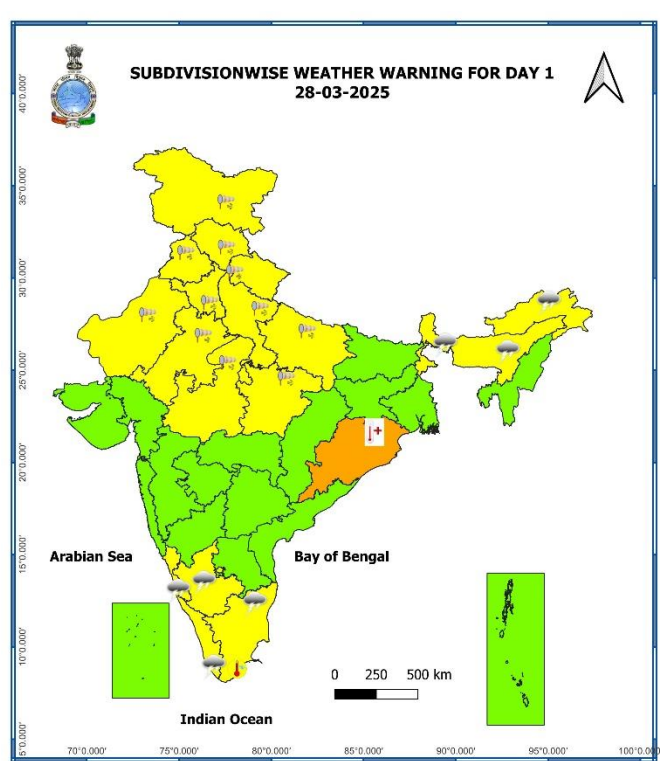
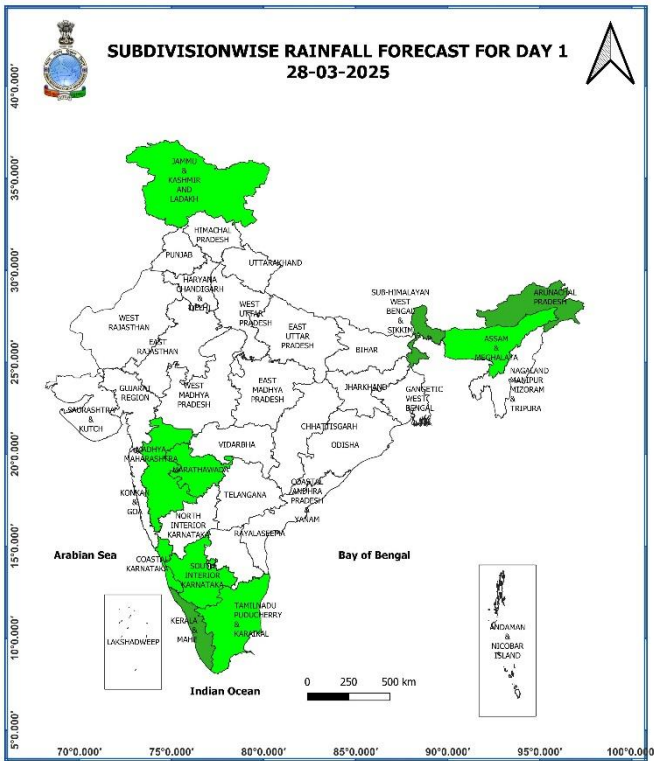
## Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of today): 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 today): (in cm): **NIL**.
- ❖ **Minimum Temperature Departures (as on 28-03-2025)**: Minimum temperatures are **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 are **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**). Today, the **lowest minimum temperature of 12.4°C** is reported at **Amritsar (Punjab)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 28-03-2025)**: Maximum Temperatures are **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**). Today, the highest **maximum temperature of 43.0°C** was reported at **Rajnandgaon (Chhattisgarh) & Jharsuguda (Odisha)** over the country.

## Meteorological Analysis (Based on 1730 hours IST)

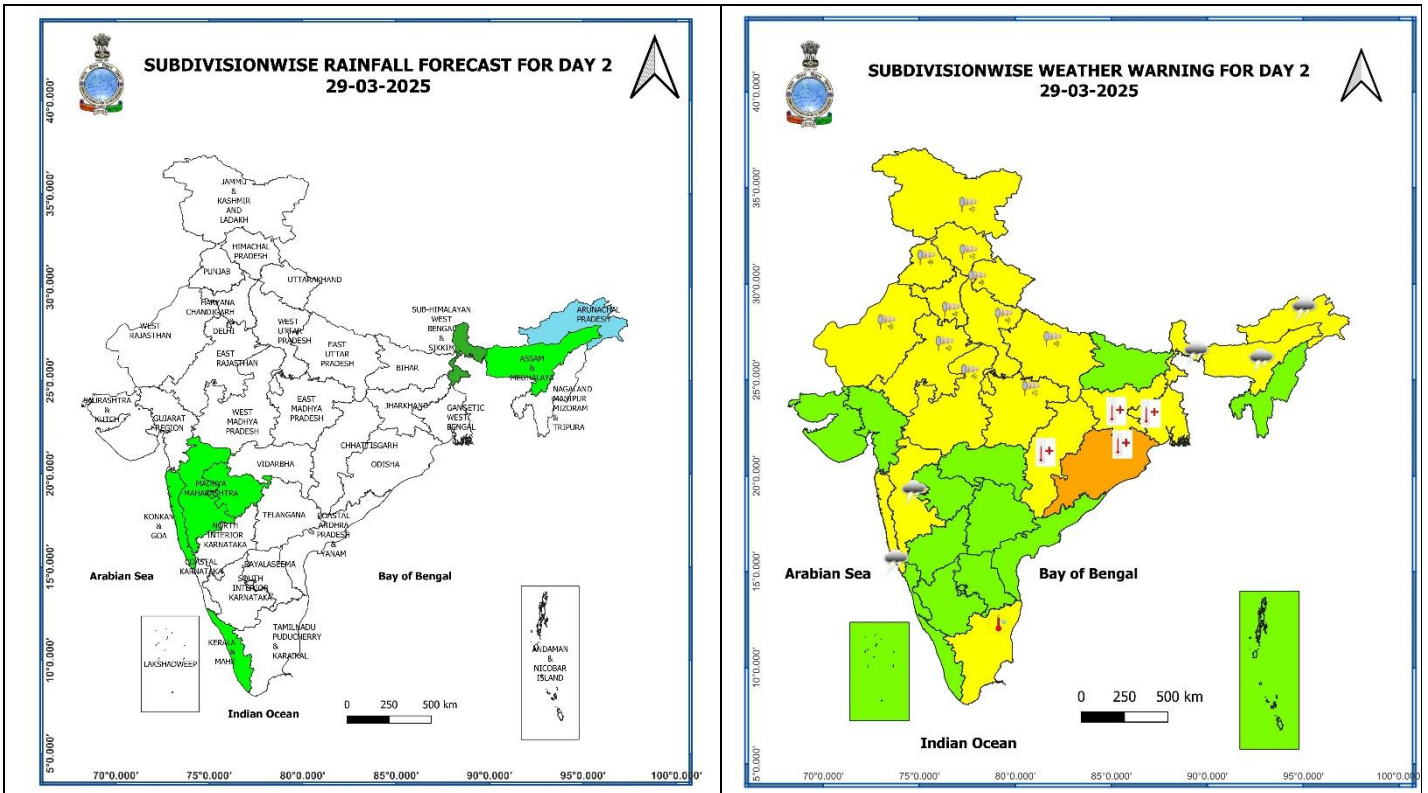
- ❖ The **Western Disturbance** as a trough in lower to upper tropospheric levels with its axis at 5.8 km above mean sea level now runs roughly along Long. 71°E to the north of Lat. 32°N.
- ❖ The **trough** from Bihar to northeast Assam across Sub-Himalayan West Bengal & Sikkim at 0.9 km above mean sea level persists.
- ❖ The **trough** from North Interior Karnataka to south Tamil Nadu now runs from south interior Karnataka to south Tamil Nadu at 0.9 km above mean sea level.

**Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 04<sup>th</sup> April, 2025)**



**28<sup>th</sup> March (Day 1):**

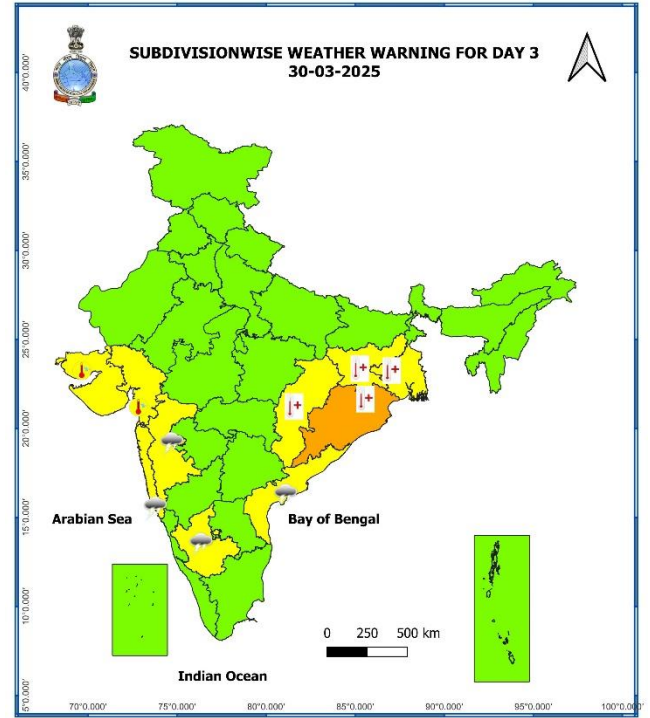
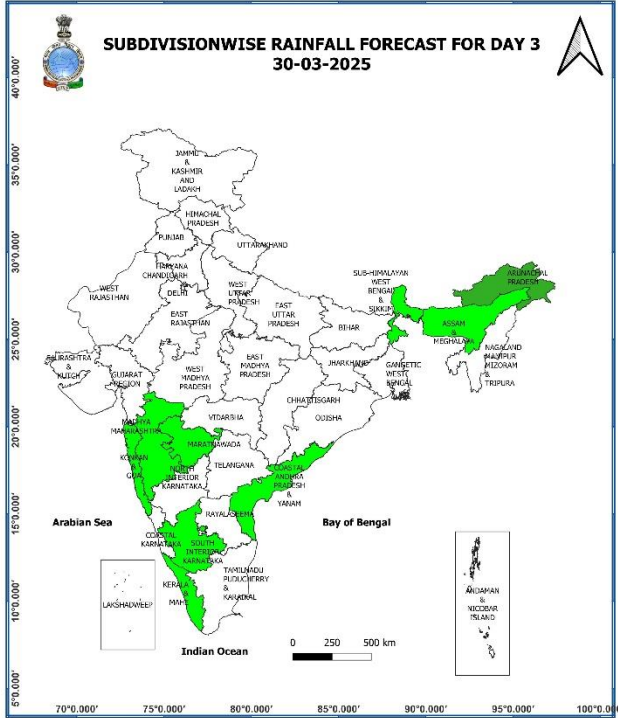
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe; **with lightning** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Karnataka, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave conditions** very likely at isolated places over Interior Odisha.
- ❖ **Hot and Humid Conditions** very 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.



### 29<sup>th</sup> March (Day 2):

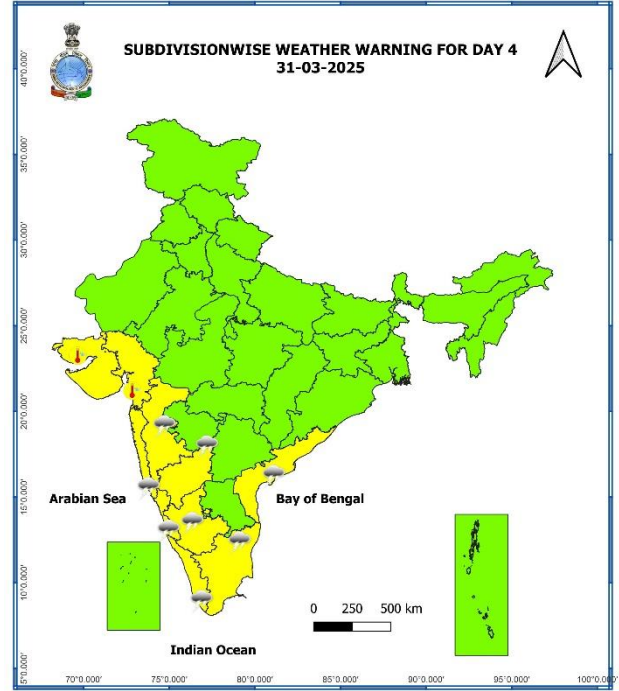
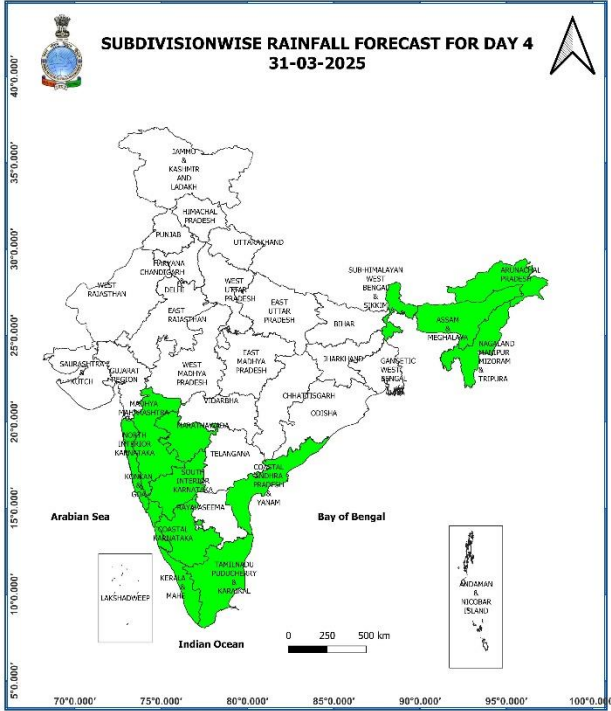
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Sub-Himalayan West Bengal & Sikkim, Goa, Madhya Maharashtra; **with lightning** at isolated places over Arunachal Pradesh, Assam & Meghalaya.
- ❖ **Heat wave conditions** likely at isolated 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.





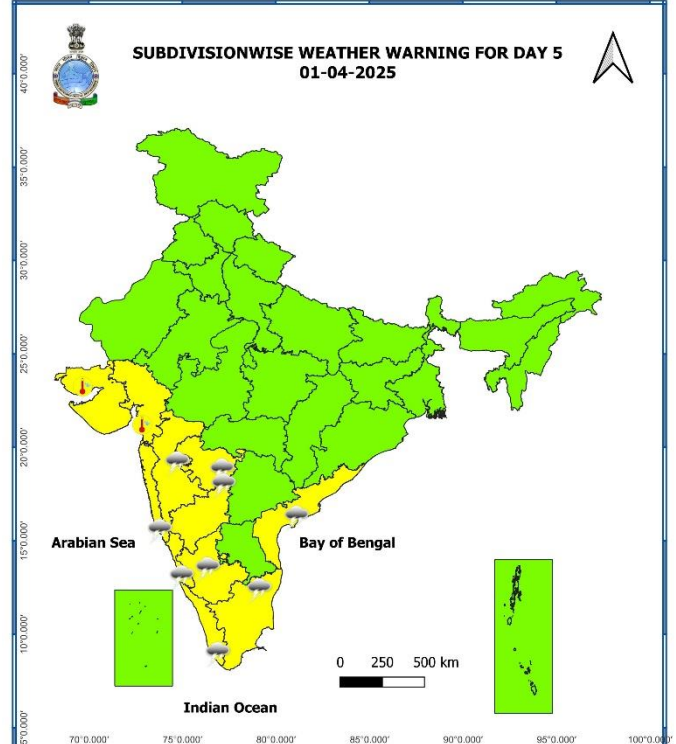
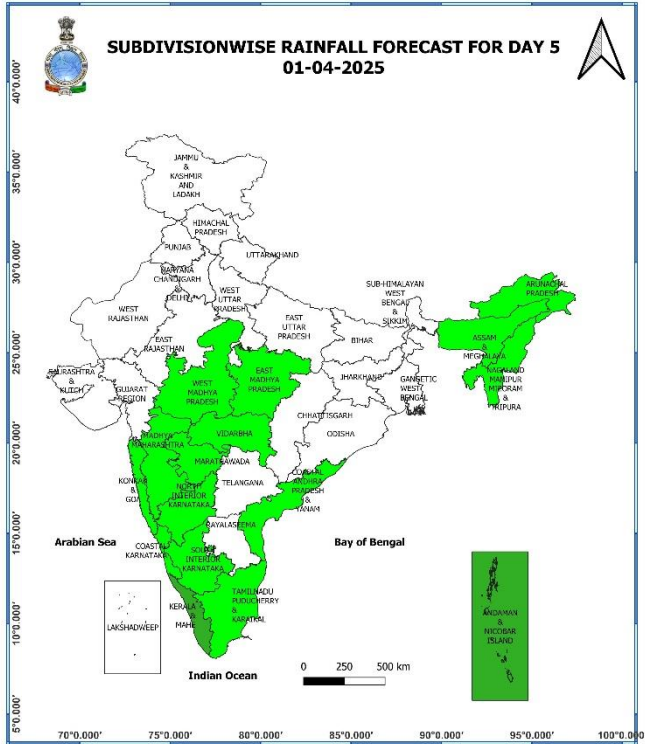
### 30<sup>th</sup> March (Day 3):

- ❖ **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.



### 31<sup>st</sup> March (Day 4):

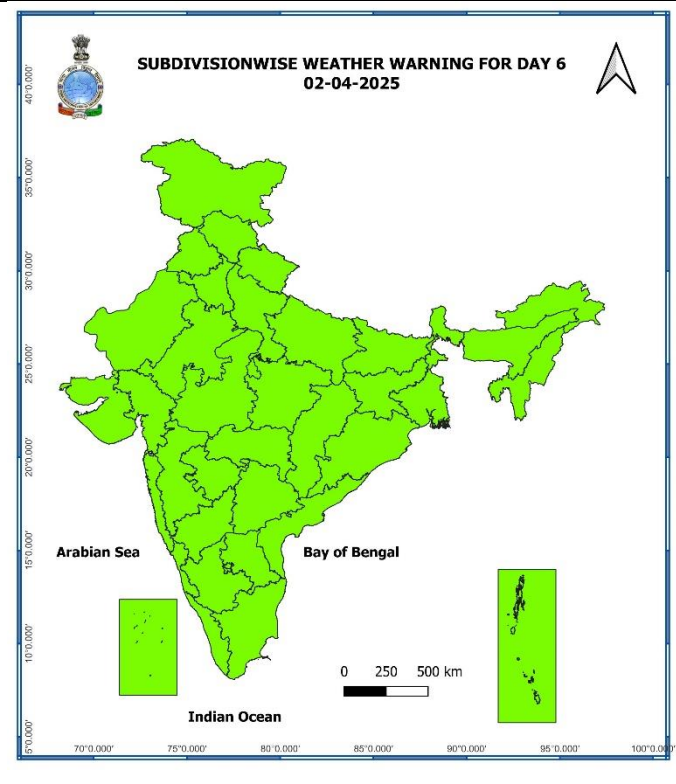
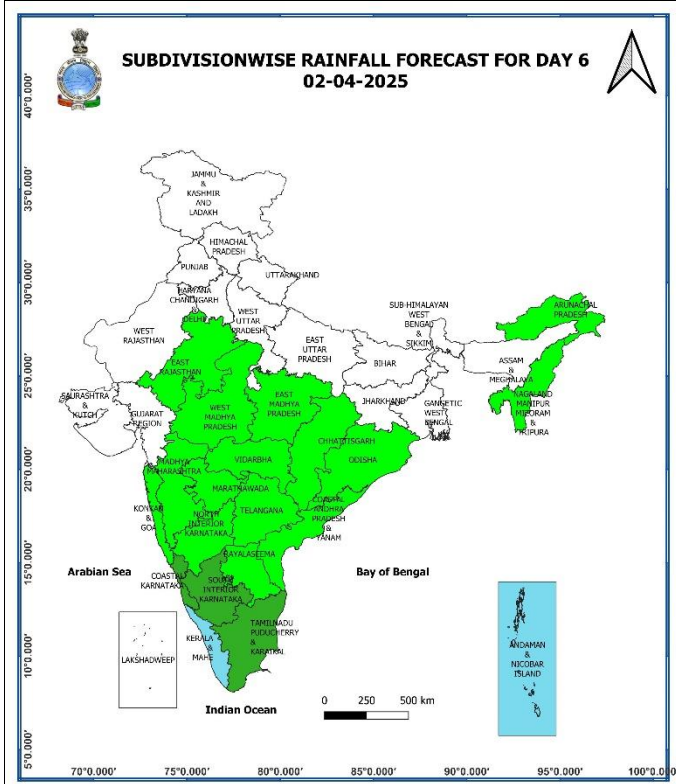
- ❖ **Thunderstorm accompanied with gusty winds (speed reaching 40 - 50 kmph) & lightning** very likely at isolated places over Madhya Maharashtra, North Interior Karnataka; **with gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Konkan & Goa, Coastal Andhra Pradesh & Yanam; with lightning 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.



### 01<sup>st</sup> April (Day 5):

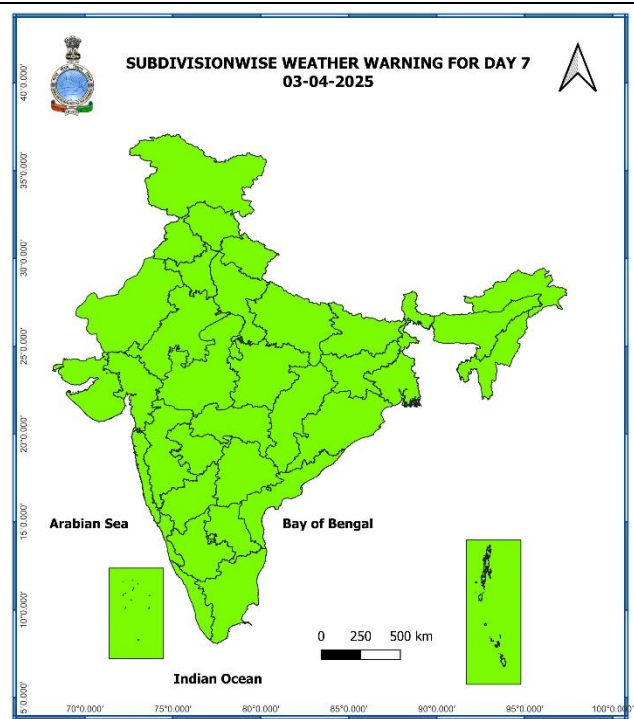
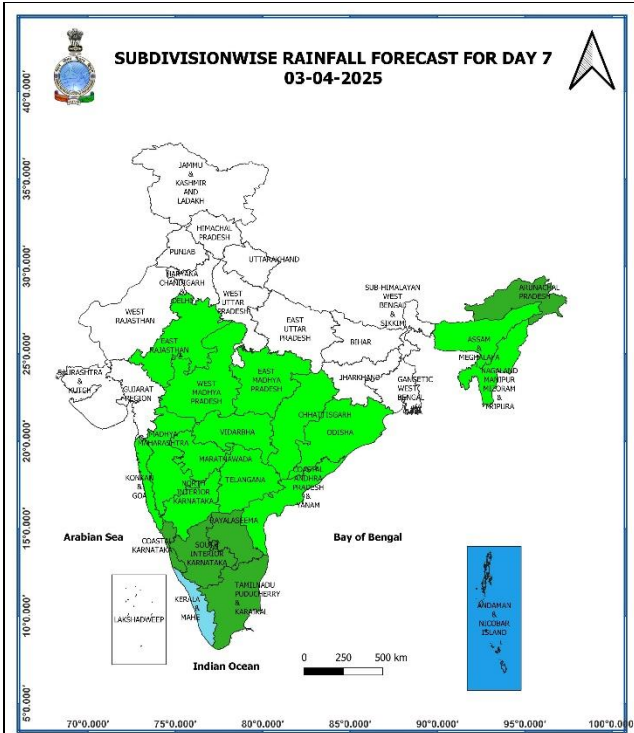
- ❖ **Thunderstorm accompanied with gusty winds (speed reaching 40 - 50 kmph) & lightning** very likely at isolated places over Madhya Maharashtra, Marathwada, North Interior Karnataka, South Interior Karnataka; **with gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Konkan & Goa, 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.





**02<sup>nd</sup> April (Day 6):**

❖ **No warning.**



**03<sup>rd</sup> April (Day 7):**

❖ **No warning.**

### Weather Outlook for subsequent 3 days (During 04<sup>th</sup> April- 06<sup>th</sup> April, 2025)

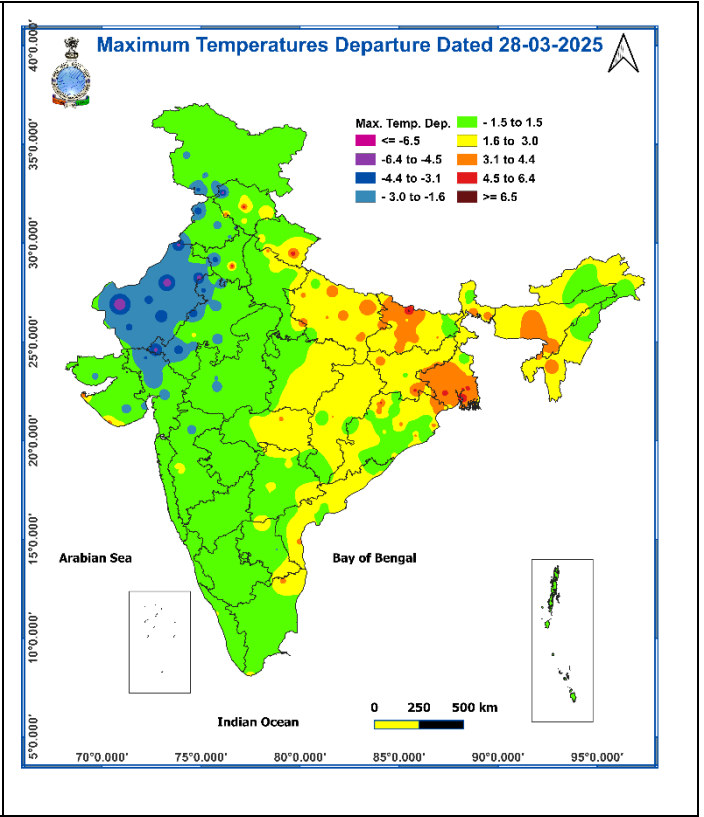
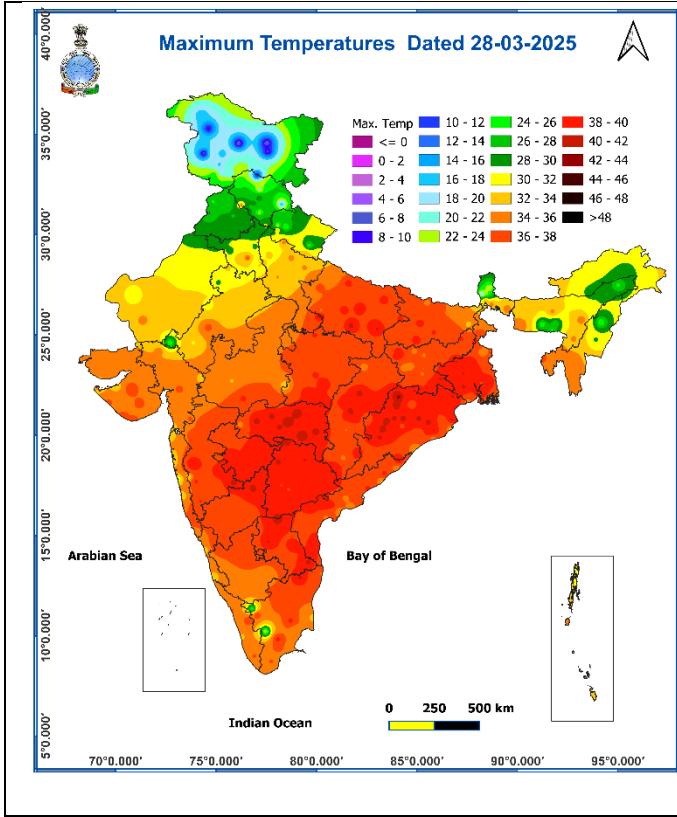
❖ **Isolated to scattered rainfall** likely over central India, Arunachal Pradesh, Andaman & Nicobar Islands, Odisha and south peninsular India.

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.

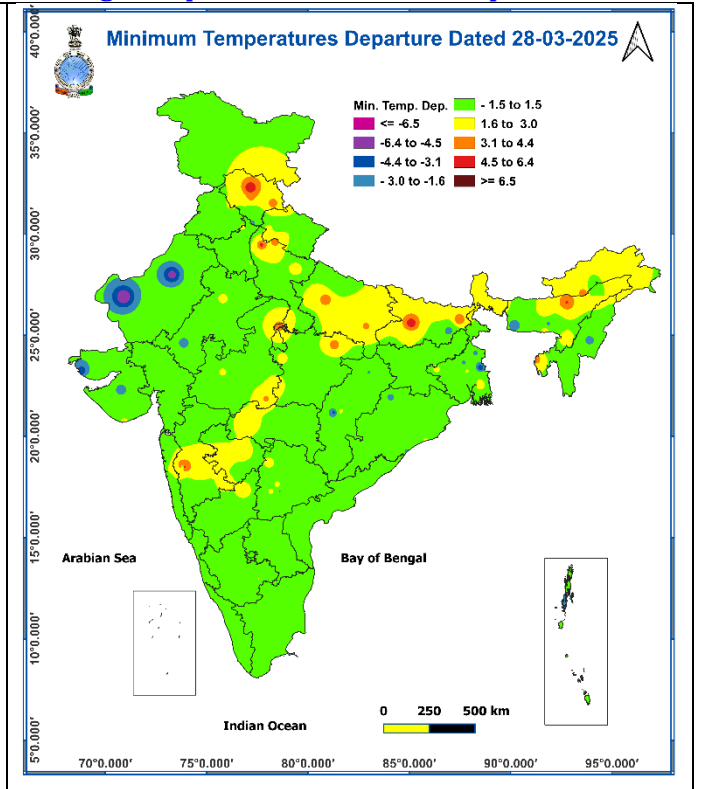
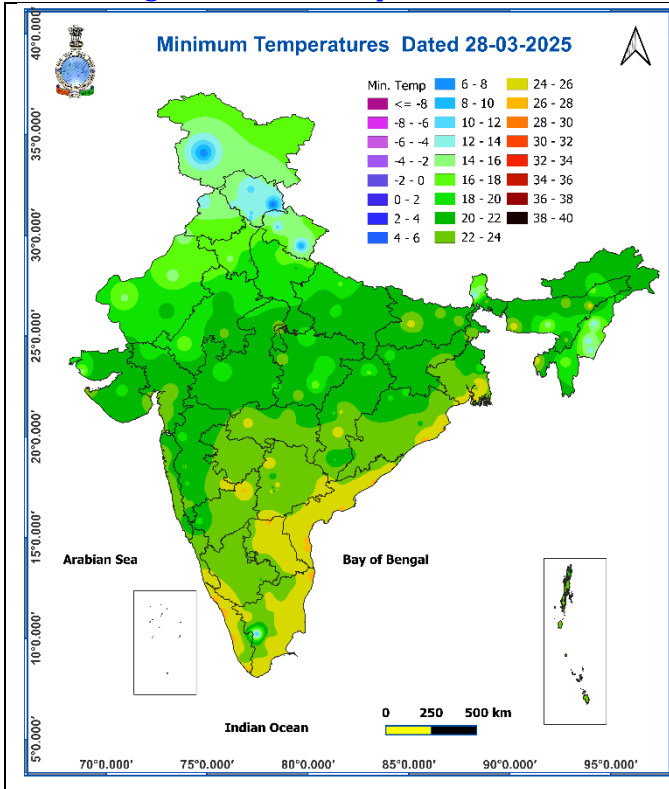
**Fig. 1: Maximum Temperatures**

**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 during 28<sup>th</sup> – 30<sup>th</sup>; Chhattisgarh, South Gangetic West Bengal and south Jharkhand on 29<sup>th</sup> & 30<sup>th</sup> March.

### Orange alert Areas

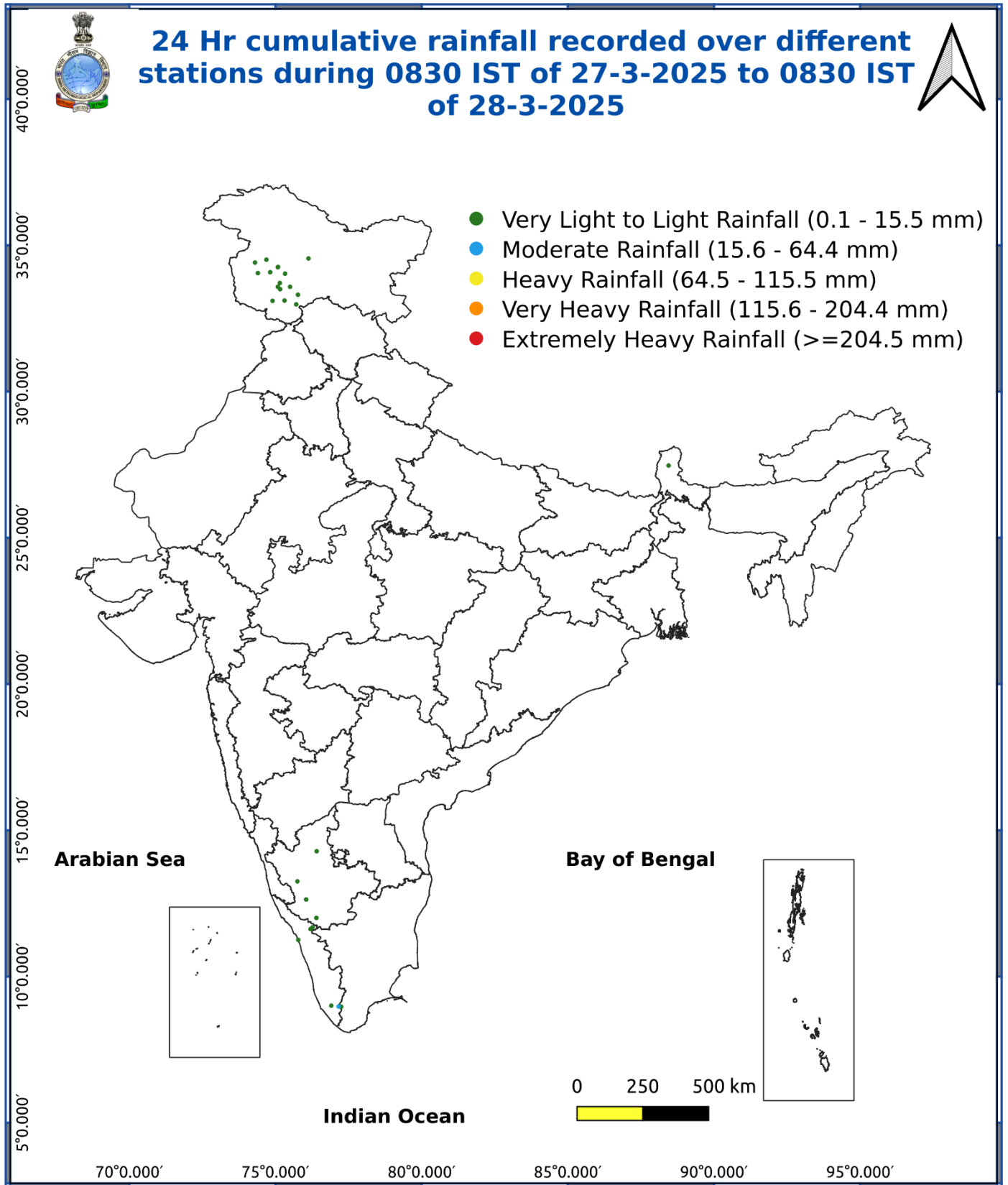
- High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure– keep cool. Avoid dehydration.
- 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.



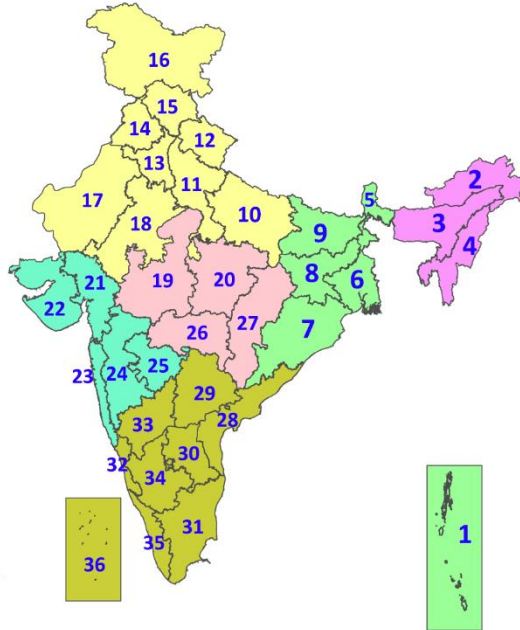
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



\* 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)

## 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. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
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. कोंकण 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. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और माहे
36. लक्षद्वीप



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)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)

- |                      |                      |              |
|----------------------|----------------------|--------------|
| Fog                  | Heavy Snow           | Cold Wave    |
| Heavy Rain           | Dust Storm           | Cold Day     |
| Very Heavy Rain      | Heat Wave            | Ground Frost |
| Extremely Heavy Rain | Warm Night           |              |
| Thunder & Lightning  | Hot Day              |              |
| Hailstorm            | Hot & Humid          |              |
| Dust Raising Winds   | Strong Surface Winds |              |

### 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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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  $3^{\circ}\text{C}$  above normal along with the above normal relative humidity.