

Tuesday, March 25, 2025  
Time of Issue: 1330 hours IST  
(MID-DAY)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features:

#### ii. Weather Systems, Forecast and Warnings :

- ❖ A Western Disturbance as a trough in lower to upper tropospheric level with its axis at 3.1 km above mean sea level runs roughly along Long. 56°E to the north of Lat. 25°N. An upper air cyclonic circulation lies over central Pakistan in lower tropospheric levels. Under their influence:
  - ✓ **Isolated to scattered** light/moderate rainfall accompanied with **thunderstorm, lightning** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 25<sup>th</sup>-28<sup>th</sup>; Himachal Pradesh during 25<sup>th</sup>-27<sup>th</sup>; over Uttarakhand during 26<sup>th</sup>-28<sup>th</sup> and over Punjab on 26<sup>th</sup> & 27<sup>th</sup> March.
  - ✓ **Heavy rainfall/snowfall** likely at isolated places over Kashmir, heavy rainfall over Jammu and light to moderate snowfall over Ladakh on 26<sup>th</sup> March.
  - ✓ **Heavy rainfall** likely at isolated places over Arunachal Pradesh on 28<sup>th</sup> & 29<sup>th</sup> March.
- ❖ A trough runs from south Chhattisgarh to north interior Tamil Nadu across interior Maharashtra 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 south Madhya Maharashtra, Konkan & Goa on 25<sup>th</sup>; Karnataka on 25<sup>th</sup> & 26<sup>th</sup>; Kerala & Mahe during 25<sup>th</sup> -27<sup>th</sup> March, 2025.

#### Temperature Forecast:

- ❖ Gradual rise in maximum temperatures by 2-3°C likely over many places over plains of Northwest India during next 2 days and fall by 3-5°C thereafter.
- ❖ Gradual rise in maximum temperatures by 4-6°C likely over East India and by 2-3°C over Interior Maharashtra during next 4-5 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Central India during next 2-3 days and no significant change thereafter.
- ❖ Gradual fall in maximum temperatures by 2-3°C likely over Gujarat during next 2 days and rise by 2-3°C thereafter.

#### Heat wave and Hot & Humid weather warning:

- ❖ **Heat wave conditions very likely in isolated pockets of southwest Rajasthan & Gujarat region on 25<sup>th</sup> and over interior Odisha during 29<sup>th</sup>-31<sup>st</sup> March.**
- ❖ **Hot & humid weather conditions very likely to prevail in isolated pockets of coastal areas of Gujarat on 25<sup>th</sup> and Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam during 27<sup>th</sup>-29<sup>th</sup> March.**

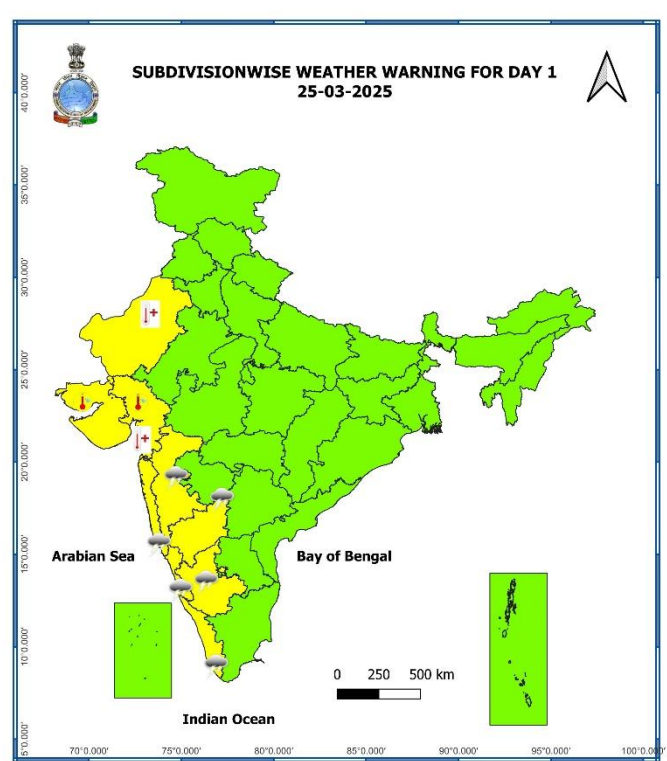
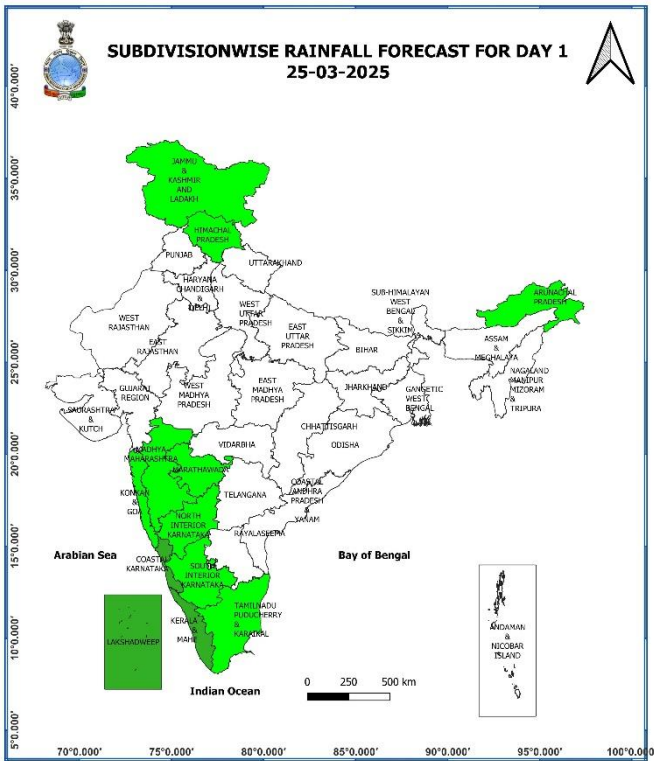
## Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Maharashtra, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Kerala & Mahe and Tamilnadu Puducherry & Karaikal.
- ❖ **Significant amount of rainfall** (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): **Tamil Nadu:** Kunda Bridge (dist The Nilgiris) 7, Chamraj Estate (dist The Nilgiris), Pillur Dam Mettupalayam (dist Coimbatore), Avalanche (dist The Nilgiris), Perungalur (dist Pudukkottai), Kinnakorai (dist The Nilgiris) 1 each, **Kerala:** Ottapalam (dist Palakkad) 3, Nilambur (dist Malappuram) 1; **North Interior Karnataka:** Yedrami (dist Kalaburgi) 3; **Coastal Andhra Pradesh & Yanam:** Anakapalle (dist Anakapalli) 2; **Arunachal Pradesh:** Lamang 2 AWS (dist Shiyomi) 2.
- ❖ **Heavy rainfall** reported at isolated places over Tamil Nadu.
- ❖ **Hailstorms reported** at isolated locations over Telangana and North Interior Karnataka.
- ❖ **Squally/Gusty winds** prevailed at isolated locations over Tamilnadu Puducherry & Karaikal, Telangana and North Interior Karnataka.
- ❖ **Minimum Temperature Departures (as on 25-03-2025):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Himachal Pradesh, Saurashtra & Kutch and Madhya Maharashtra; **above normal (1.6°C to 3.0°C)** a few places over West Rajasthan, West Madhya Pradesh and Lakshadweep; at isolated places over Delhi, Bihar and Kerala & Mahe. These are **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Odisha, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal; **below normal (-3.0°C to -1.6°C)** at many places over East Madhya Pradesh; at isolated places over Haryana-Chandigarh, East Rajasthan, Coastal Karnataka, West Bengal and Sikkim and Assam & Meghalaya and near normal over rest parts of the country (**Fig. 4**). Today, the **lowest minimum temperature** of 13.3°C is reported at **Adampur(Punjab)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 24-03-2025):** Maximum Temperatures were **markedly above normal (5.1°C or more)** at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Himachal Pradesh and West Rajasthan; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Saurashtra & Kutch; at isolated places over East Rajasthan; **above normal (1.6°C to 3.0°C)** at many places over Delhi; at a few places over Assam & Meghalaya and Lakshadweep; at isolated places over Punjab, Haryana-Chandigarh, West Uttar Pradesh, West Madhya Pradesh and Konkan & Goa. These were **below normal (-3.0°C to -1.6°C)** at many places over Gangetic West Bengal; at isolated places over East Madhya Pradesh, Chhattisgarh, Jharkhand, Bihar, Telangana, Coastal Andhra Pradesh & Yanam, Interior Karnataka and Odisha and near normal over rest parts of the country (**Fig. 2**). Yesterday, the highest **maximum temperature** of 41.6°C was reported at **Barmer (West Rajasthan)** over the country.

## Meteorological Analysis (Based on 0830 hours IST)

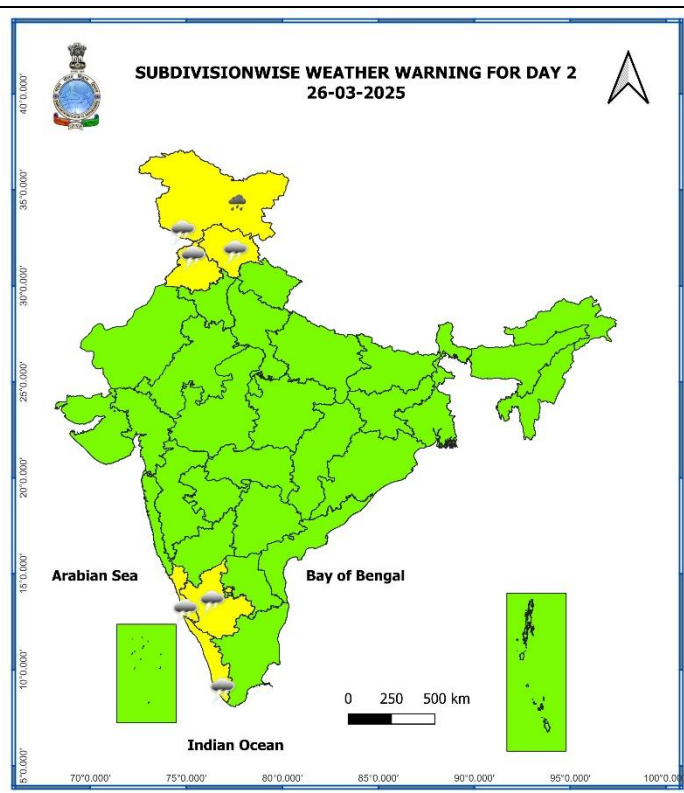
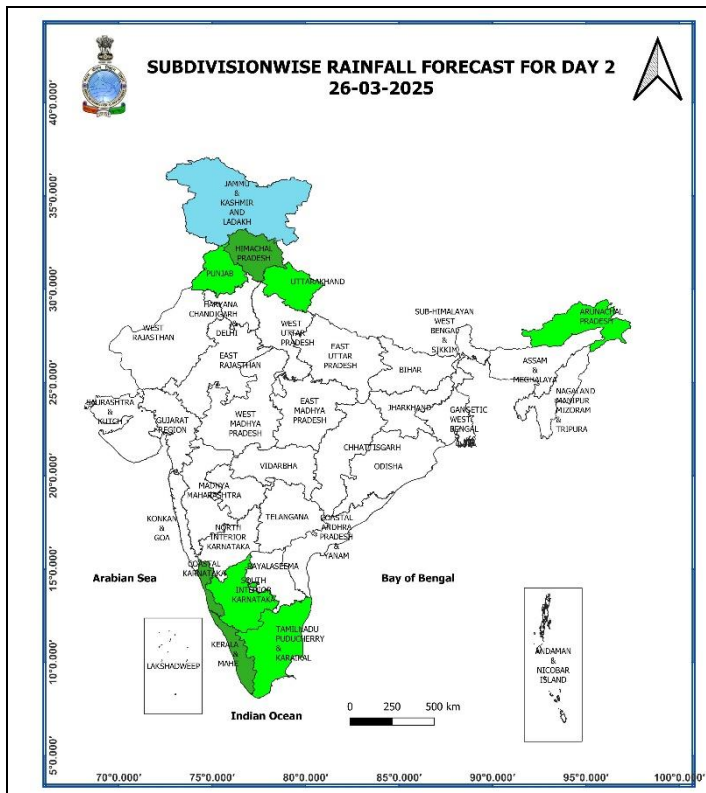
- ❖ The **Western Disturbance** as a trough in middle & upper tropospheric level with its axis at 3.1 km above mean sea level roughly along Long. 56°E to the north of Lat. 25°N persists.
- ❖ An upper air **cyclonic circulation** lies over central Pakistan and extends upto 1.5 km above mean sea level.
- ❖ The north-south **trough** from south Chhattisgarh to north Kerala now runs from south Chhattisgarh to North Interior Tamil Nadu across interior Maharashtra & interior Karnataka at 0.9 km above mean sea level.

**Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 01<sup>st</sup> April, 2025)**



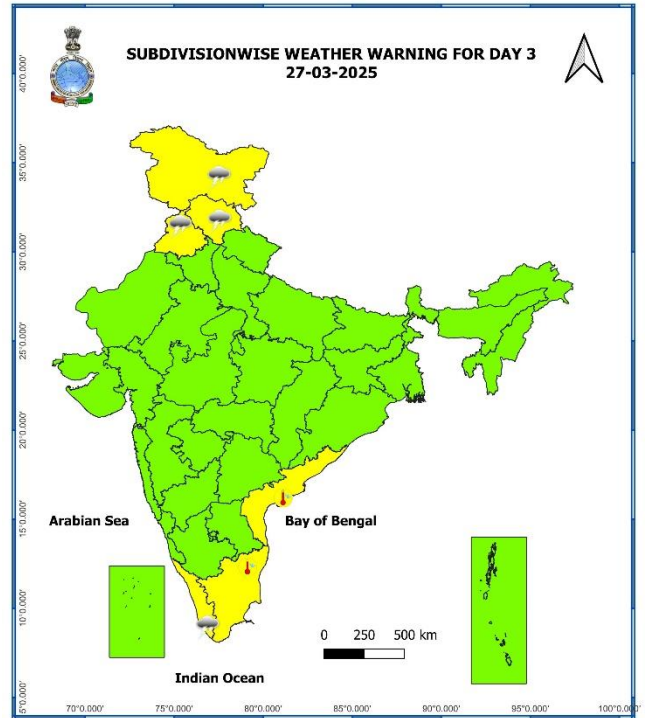
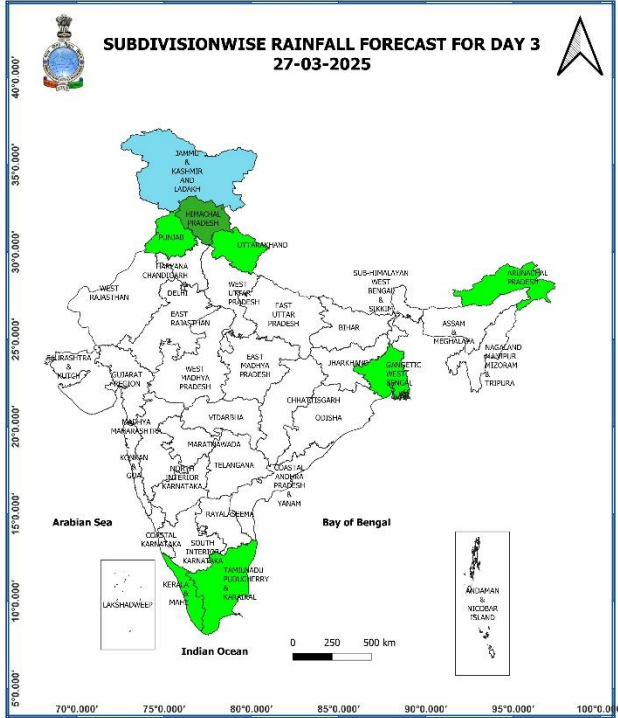
**25<sup>th</sup> March (Day 1):**

- ❖ **Thunderstorm accompanied with gusty winds (speed reaching 40 - 50 kmph) & lightning** very likely at isolated places over North Interior Karnataka; **with gusty winds (speed reaching 30-40 kmph) & lightning** at isolated places over Konkan & Goa and south Madhya Maharashtra; **with lightning** at isolated places over Coastal Karnataka, South Interior Karnataka and Kerala & Mahe.
- ❖ **Heat Wave Conditions** very likely at isolated places over southwest Rajasthan and Gujarat Region.
- ❖ **Hot and Humid Conditions** very likely at isolated places over Gujarat state.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** is likely to prevail over western parts of northwest Arabian sea. Fishermen are advised no to venture into these areas.



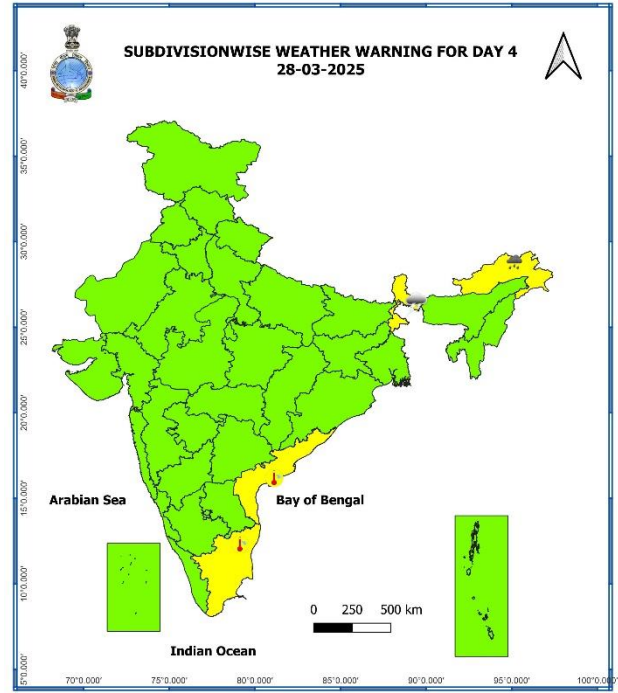
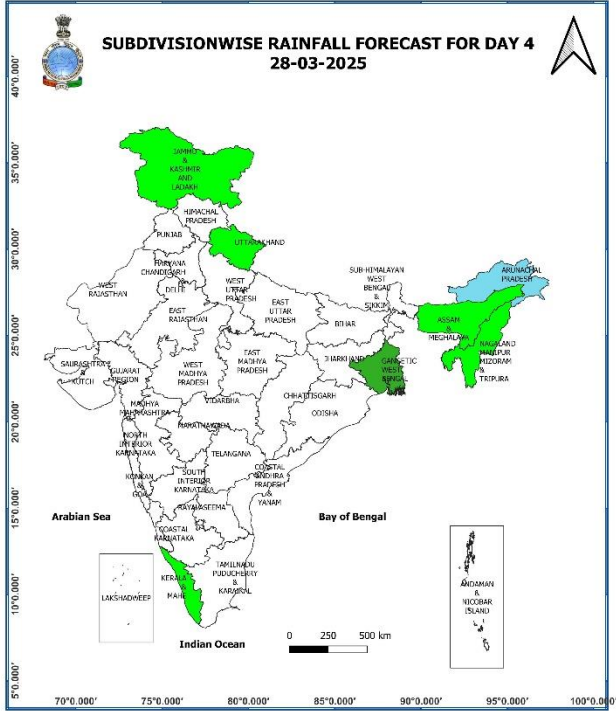
### 26<sup>th</sup> March (Day 2):

- ❖ **Heavy rainfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with gusty winds (speed reaching 40 - 50 kmph) & lightning** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **with lightning** at isolated places over Himachal Pradesh, Punjab, Coastal Karnataka, South Interior Karnataka and Kerala & Mahe.



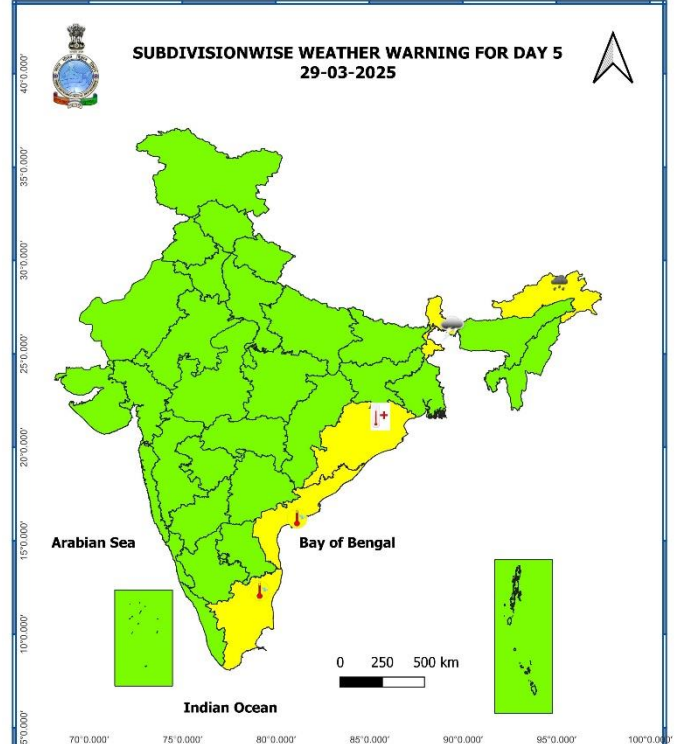
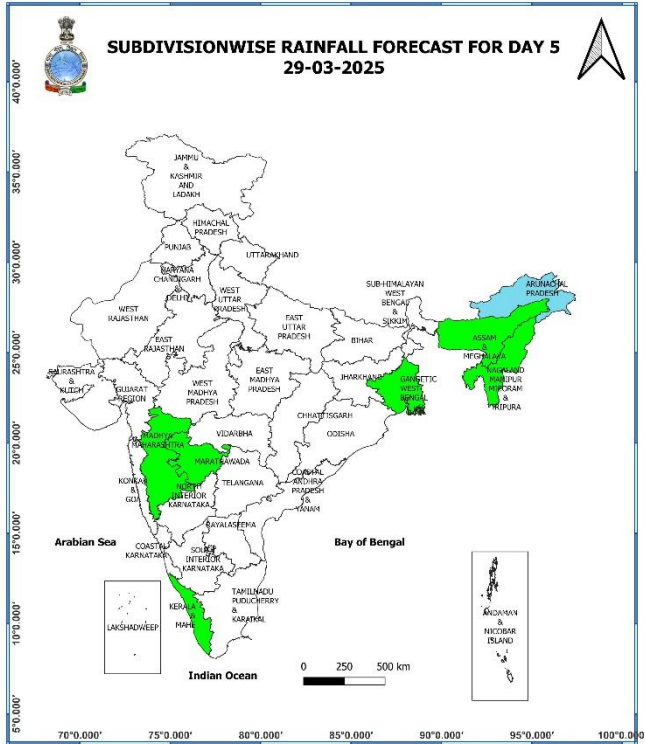
### 27<sup>th</sup> March (Day 3):

- ❖ **Thunderstorm accompanied with gusty winds (speed reaching 40 - 50 kmph) & lightning** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **with lightning** likely at isolated places over Himachal Pradesh, Punjab and Kerala & Mahe.
- ❖ **Hot and Humid Conditions** likely at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.



### 28<sup>th</sup> March (Day 4):

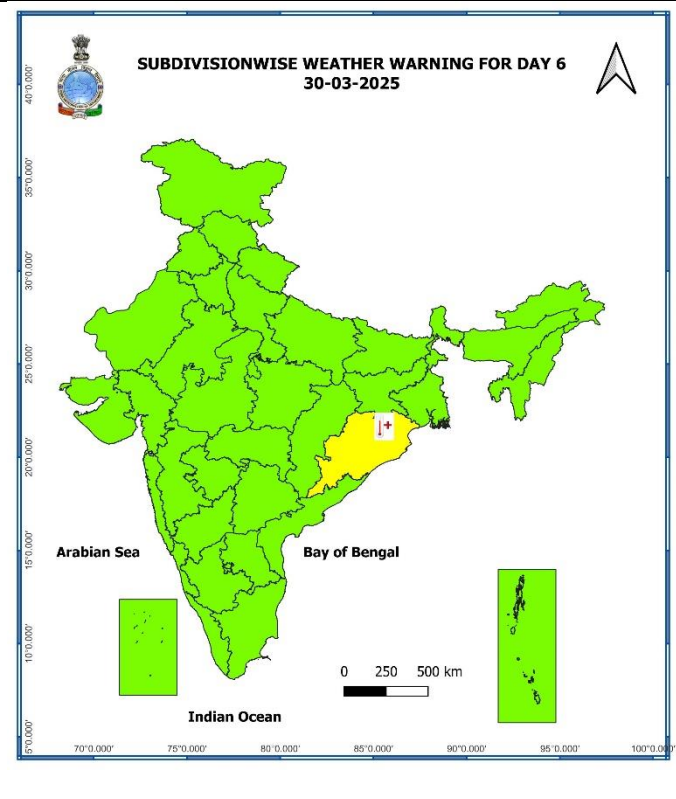
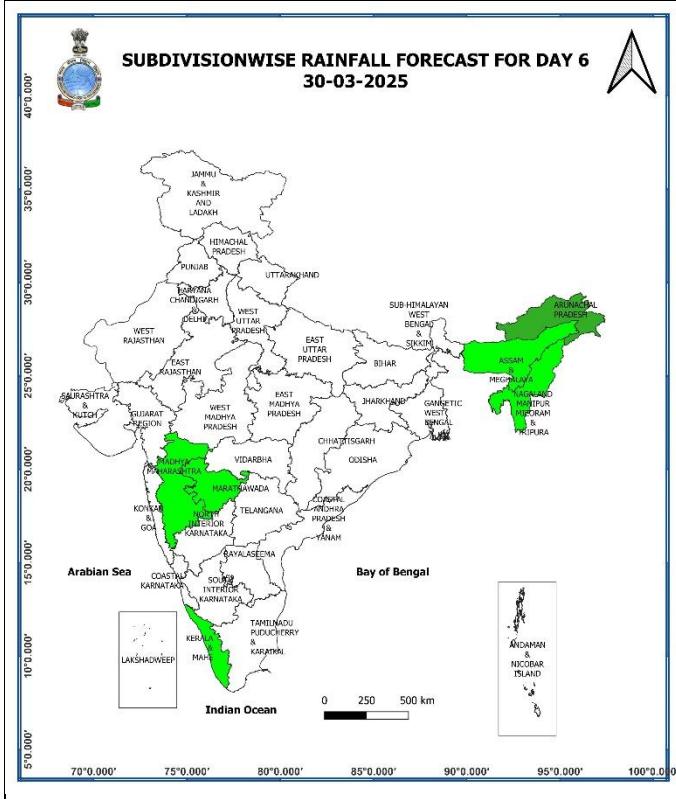
- ❖ **Heavy rainfall** likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Sub-Himalayan West Bengal & Sikkim.
- ❖ **Hot and Humid Conditions** likely at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.



### 29<sup>th</sup> March (Day 5):

- ❖ **Heavy rainfall** likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Sub-Himalayan West Bengal & Sikkim.
- ❖ **Heat wave conditions** likely at isolated places over Interior Odisha.
- ❖ **Hot and Humid Conditions** likely at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal

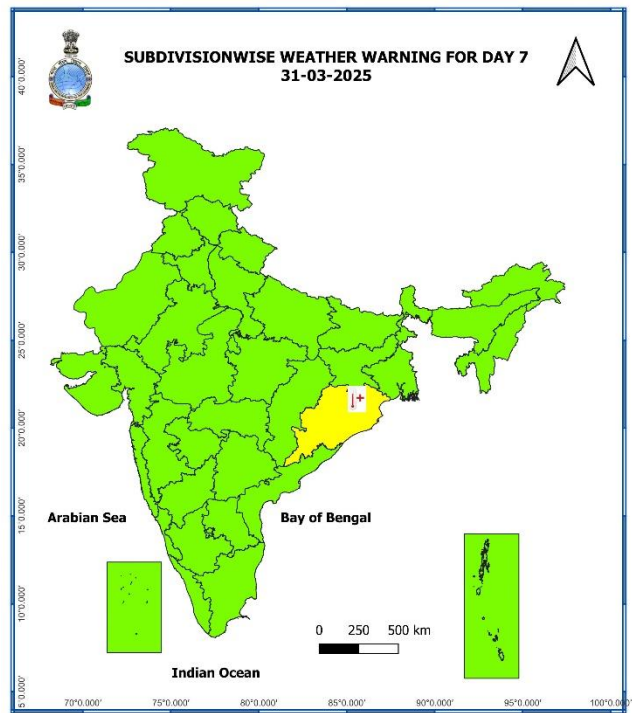
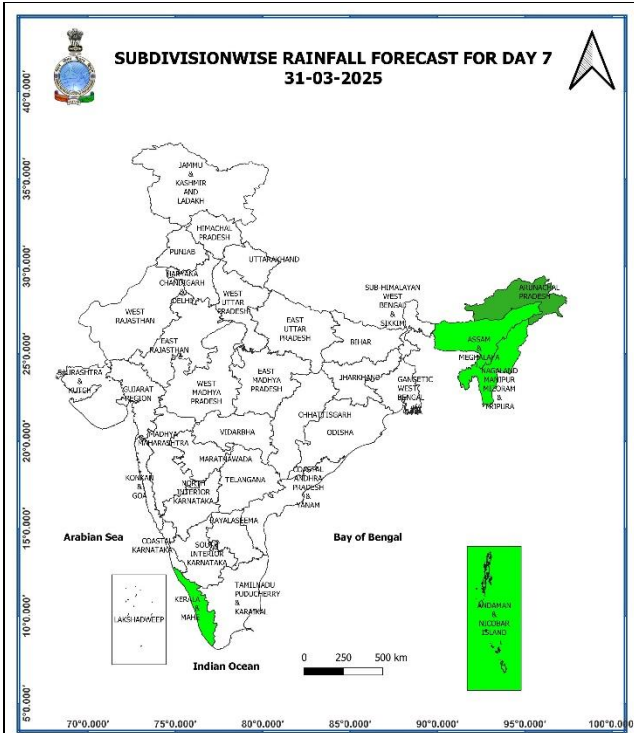




**30<sup>th</sup> March (Day 6):**

❖ Heat wave conditions likely at isolated places over interior Odisha.

\* 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)



### 31<sup>st</sup> March (Day 7):

- ❖ **Heat wave conditions** likely at isolated places over interior Odisha.

### Weather Outlook for subsequent 3 days (During 01<sup>st</sup> April- 03<sup>rd</sup> April, 2025)

- ❖ **Isolated to scattered rainfall** likely over central India, Arunachal Pradesh, Andaman & Nicobar Islands, Maharashtra, Gujarat state, Odisha, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Karnataka and South Interior Karnataka.

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

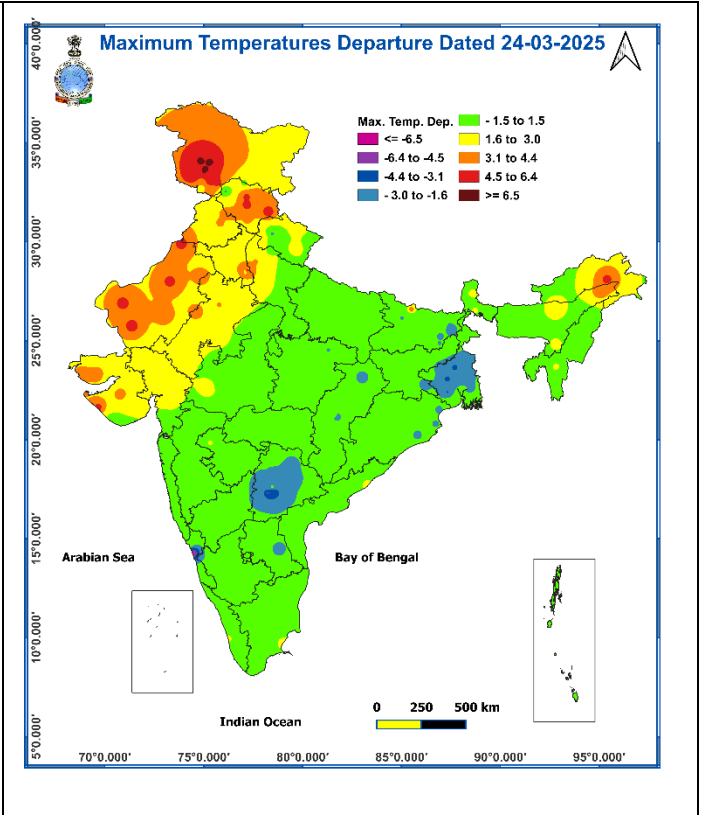
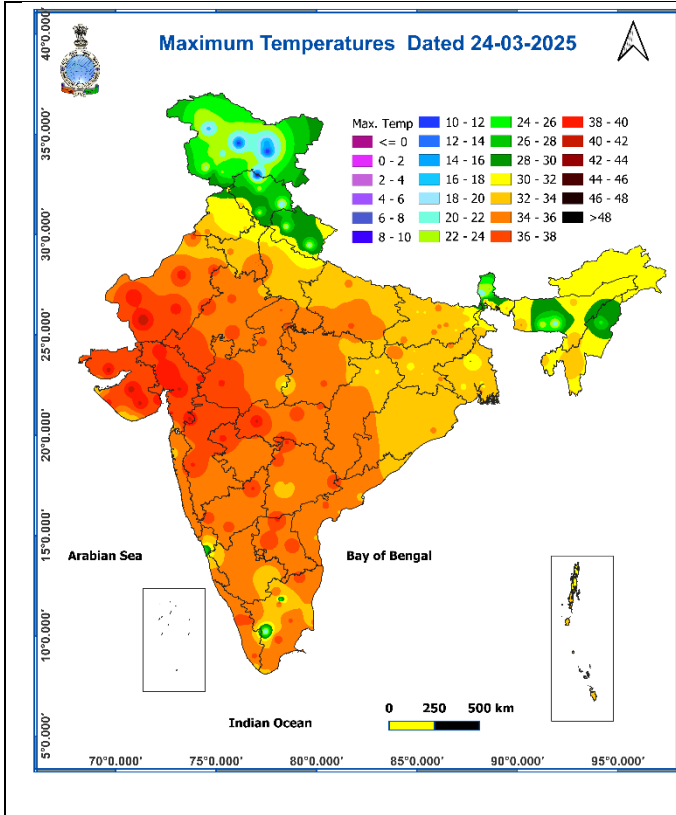


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

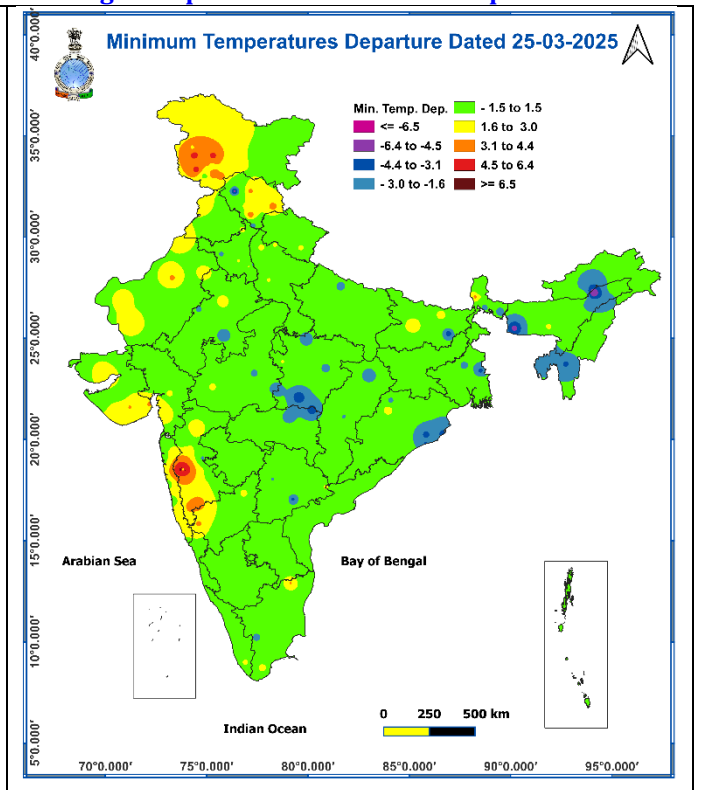
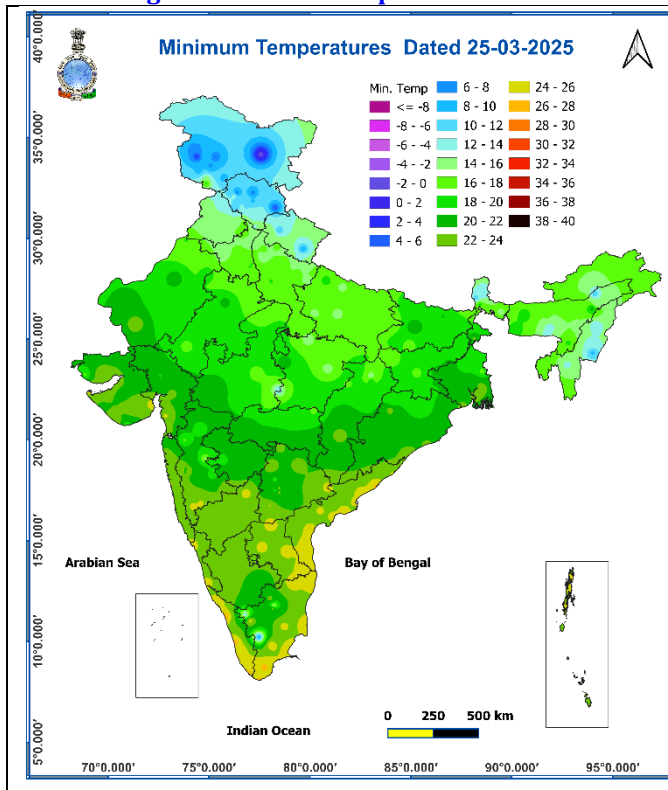
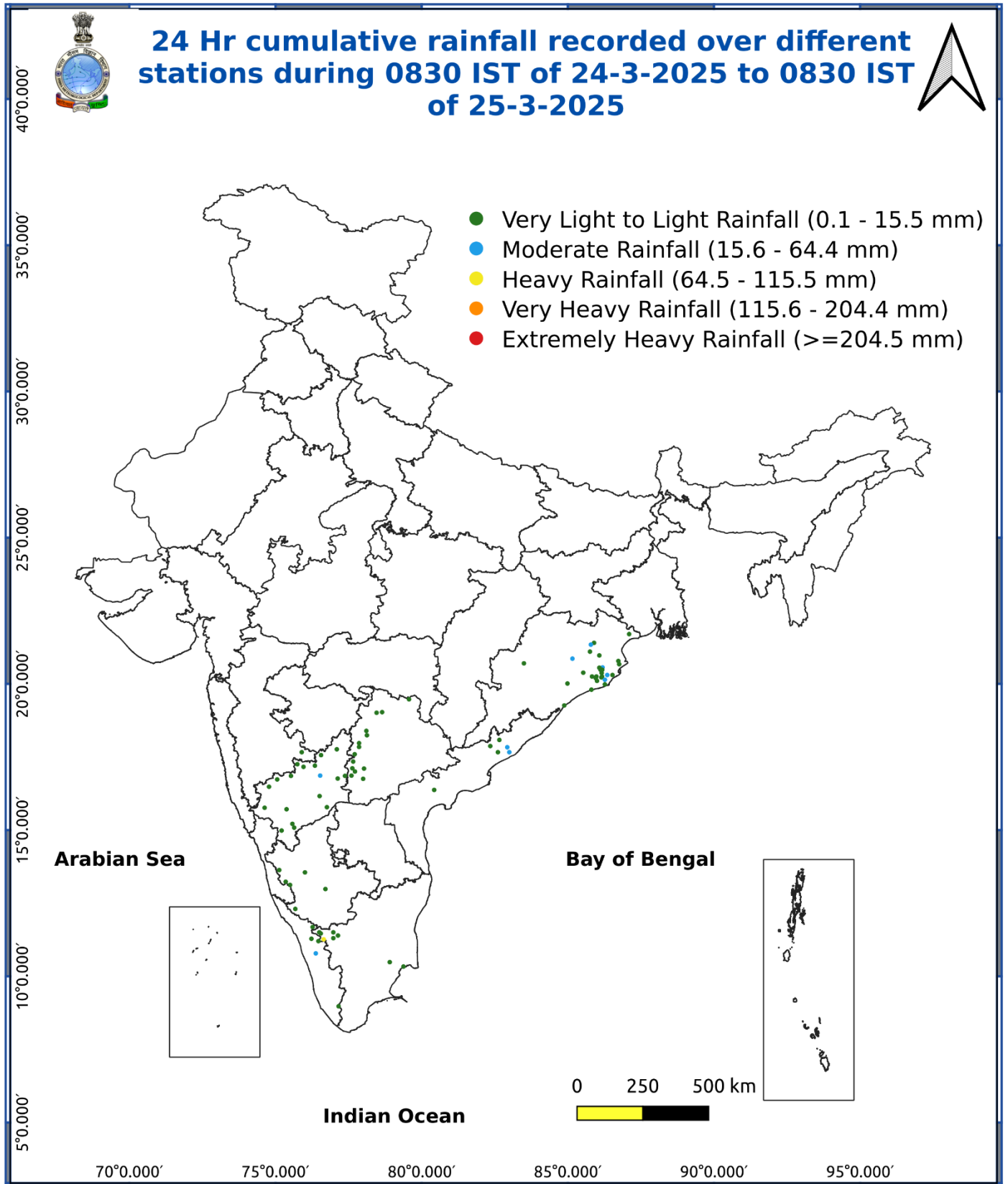


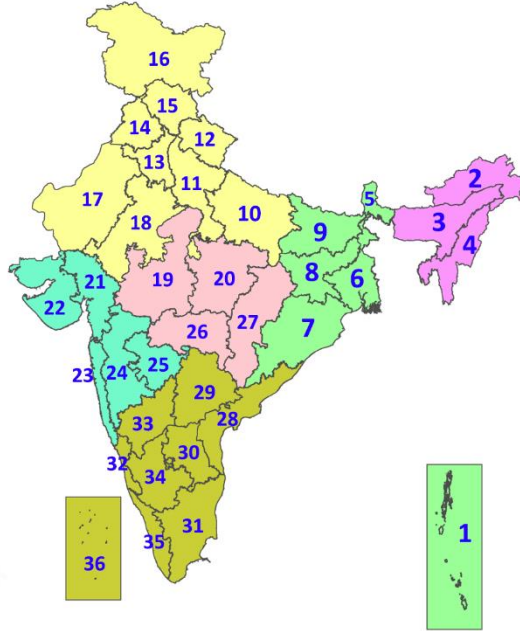
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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## 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

<b>Rain/ Snow *</b>	<p><b>Heavy:</b> 64.5 to 115.5 mm/cm *</p> <p><b>Very Heavy:</b> 115.6 to 204.4 mm/cm*</p> <p><b>Extremely Heavy:</b> &gt; 204.4 mm/cm *</p>
<b>Heat Wave</b>	<p><b>When maximum temperature of a station reaches <math>\geq 40^\circ\text{C}</math> for plains and <math>\geq 30^\circ\text{C}</math> for hilly regions</b></p> <p><b>(a) Based on Departure from normal</b></p> <p><b>Heat Wave:</b> Maximum Temperature Departure from normal <math>4.5^\circ\text{C}</math> to <math>6.4^\circ\text{C}</math>.</p> <p><b>Severe Heat Wave:</b> Maximum Temperature Departure from normal <math>\geq 6.5^\circ\text{C}</math></p> <p><b>(b). Based on Actual maximum temperature</b></p> <p><b>Heat Wave:</b> When actual maximum temperature <math>\geq 45^\circ\text{C}</math>.</p> <p><b>Severe Heat Wave:</b> When actual maximum temperature <math>\geq 47^\circ\text{C}</math></p> <p><b>( c). Criteria for heat wave for coastal stations</b></p> <p>When maximum temperature departure is <math>&gt;4.5^\circ\text{C}</math> from normal. Heat Wave may be described provided maximum temperature <math>\geq 37^\circ\text{C}</math></p>
<b>Warm Night</b>	<p><b>When maximum temperature remains <math>40^\circ\text{C}</math></b></p> <p><b>Warm Night:</b> When minimum temperature departure <math>4.5^\circ\text{C}</math> to <math>6.4^\circ\text{C}</math>.</p> <p><b>Severe Warm Night:</b> When minimum temperature departure <math>&gt;6.4^\circ\text{C}</math>.</p>
<b>Cold Wave</b>	<p><b>When minimum temperature of a station <math>\leq 10^\circ\text{C}</math> for plains and <math>\leq 0^\circ\text{C}</math> for hilly regions.</b></p> <p><b>(a). Based on departure</b></p> <p><b>Cold Wave:</b> Minimum Temperature Departure from normal <math>-4.5^\circ\text{C}</math> to <math>-6.4^\circ\text{C}</math>.</p> <p><b>Severe Cold Wave:</b> Minimum Temperature Departure from normal <math>\leq -6.5^\circ\text{C}</math></p> <p><b>(b) Based on actual Minimum Temperature (for Plains only)</b></p> <p><b>Cold Wave :</b> When Minimum Temperature is <math>\leq 4.0^\circ\text{C}</math></p> <p><b>Severe Cold Wave:</b> When Minimum Temperature is <math>\leq 2.0^\circ\text{C}</math></p> <p><b>( c) For Coastal Stations</b></p> <p>When Minimum Temperature departure is <math>\leq -4.5^\circ\text{C}</math> &amp; actual Minimum Temperature is <math>\leq 15^\circ\text{C}</math></p>
<b>Cold Day</b>	<p><b>When minimum temperature of a station <math>\leq 10^\circ\text{C}</math> for plains and <math>\leq 0^\circ\text{C}</math> for hilly regions</b></p> <p><b>Based on departure</b></p> <p><b>Cold Day:</b> Maximum Temperature Departure from normal <math>-4.5^\circ\text{C}</math> to <math>-6.4^\circ\text{C}</math>.</p> <p><b>Severe Cold Day:</b> Maximum Temperature Departure from normal <math>\leq -6.5^\circ\text{C}</math></p>
<b>Fog</b>	<p><b>Phenomenon of small droplets suspended in air and the horizontal visibility <math>&lt; 1\text{km}</math></b></p> <p><b>Moderate Fog:</b> When the visibility between 500-200 metres</p> <p><b>Dense Fog:</b> when the visibility between 50- 200 metres</p> <p><b>Very Dense Fog:</b> when the visibility <math>&lt; 50</math> metres</p>
<b>Thunderstorm</b>	<p><b>Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)</b></p>
<b>Dust/Sand Storm</b>	<p><b>An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.</b></p>
<b>Frost</b>	<p><b>Ice deposits on ground</b></p> <p>Air temperature <math>\leq 4^\circ\text{C}</math> ( over Plains)</p>
<b>Squall</b>	<p><b>A strong wind that rises suddenly, lasts for atleast 1 minute.</b></p> <p><b>Moderate:</b> Wind speed 52-61 kmph</p> <p><b>Severe:</b> Wind speed 62-87 kmph</p> <p><b>Very Severe:</b> Wind speed <math>&gt;87</math> kmph</p>
<b>Sea State</b>	<p><b>Effect of various waves in the sea over specific area</b></p> <p><b>Rough to very rough:</b> Wind speed 41-62 kmph (22-33 knots) &amp; Wave height 2.5-6 metre</p> <p><b>High to very high:</b> Wind speed 63-117 kmph ( 34-63 knots) &amp; Wave height 6-14 metre</p> <p><b>Phenomenal:</b> Wind speed <math>&gt;117</math> kmph (<math>&gt;63</math> knots) &amp; Wave height <math>&gt;14</math> metre</p>
<b>Cyclone</b>	<p><b>Cyclonic Storm:</b> Wind speed 62-87 kmph (34-47 knots)</p> <p><b>Severe Cyclonic Storm:</b> Wind speed 88-117 kmph (48-63 knots)</p> <p><b>Very Severe Cyclonic Storm:</b> Wind speed 118-165 kmph (64 - 89 knots)</p> <p><b>Extremely Severe Cyclonic Storm:</b> Wind speed 166-220 kmph (90 -119 knots)</p> <p><b>Super Cyclone Strom:</b> Wind speed <math>&gt;220</math> kmph (<math>&gt;119</math> knots)</p>