

Wednesday, March 26, 2025
Time of Issue: 1330 hours IST
(MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and Warnings:

- ❖ A Western Disturbance as a trough in middle and upper tropospheric levels runs roughly along Long. 60°E to the north of Lat. 25°N. A cyclonic circulation lies over central Pakistan & neighbourhood in lower tropospheric levels. Under their influence:
 - ✓ **Isolated to scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand and Punjab on 26th & 27th March.
 - ✓ **Heavy rainfall/snowfall** likely at isolated places over Kashmir; heavy rainfall over Jammu and light to moderate snowfall over Ladakh on 26th & 27th March.
 - ✓ **Hailstorm** very likely at isolated places over Himachal Pradesh today.
 - ✓ **Strong Surface winds (25-35 kmph)** very likely at isolated places over Punjab during 26th-28th and Haryana Chandigarh & Delhi during 27th-29th March.
 - ✓ **Dust raising winds (20-30 kmph)** very likely at isolated places over West Rajasthan on 26th & 27th March.
 - ✓ **Heavy rainfall/snowfall** likely at isolated places over Arunachal Pradesh on 28th & 29th March.
- ❖ A trough runs from south Chhattisgarh to Gulf of Mannar across interior Maharashtra, interior Karnataka, interior 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 south Madhya Maharashtra, Konkan & Goa on 26th; Karnataka, Kerala & Mahe and Tamilnadu Puducherry & Karaikal on 26th & 27th March, 2025.

Temperature Forecast:

- ❖ No significant change in maximum temperatures over plains of Northwest India during next 24 hours and fall by 3-4°C thereafter.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over East India during next 3-4 days and fall by 2-3°C thereafter.
- ❖ No significant change in maximum temperatures over Gujarat state and Interior Maharashtra during next 3 days and rise by 2-3°C thereafter.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Central India during next 3 days and no significant change thereafter.

Heat wave and Hot & Humid weather warning:

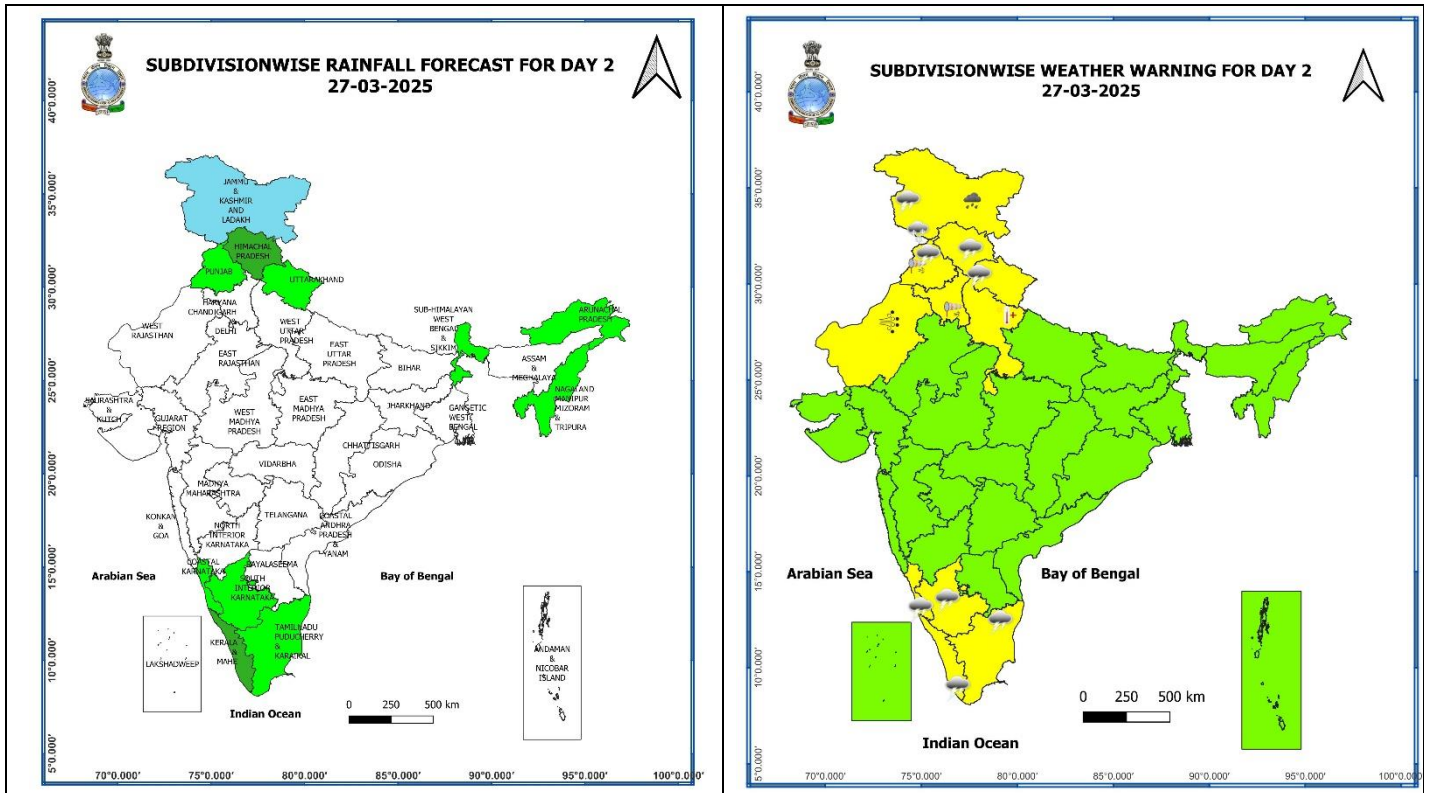
- ❖ **Heat wave conditions very likely in isolated pockets of interior Odisha on 29th & 30th March.**
- ❖ **Hot day conditions very likely in isolated pockets of West Uttar Pradesh on 26th & 27th and Gangetic West Bengal on 28th March.**
- ❖ **Hot & humid weather conditions very likely to prevail in isolated pockets of Gujarat Region on 29th & 30th; Coastal Andhra Pradesh & Yanam during 28th-30th March.**

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at a few places** over Coastal Karnataka; **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe and Tamilnadu Puducherry & Karaikal.
- ❖ **Hailstorms reported** at isolated locations over North Interior Karnataka.
- ❖ **Thunderstorm reported** at isolated locations over Kerala & Mahe, Lakshadweep, Karnataka, Rayalaseema, Konkan & Goa and Madhya Maharashtra.
- ❖ **Squally/Gusty winds** prevailed at isolated locations over North Interior Karnataka and south Madhya Maharashtra.
- ❖ **Significant amount of rainfall** (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): **Kerala & Mahe:** Kayamkulam (dist Alapuzha) 6, Vaikom (dist Kottayam) 5, Nooranad(dist Alapuzha) 4, Varkala (dist Thiruvananthapuram) 3, Kottayam (dist Kottayam) 3, Punalur (dist Kollam) 3, Kanjirappally (dist Kottayam) 2; **North Interior Karnataka:** Yedrami (dist Kalaburgi) 3; **Coastal Andhra Pradesh & Yanam:** Vepada (dist Vizianagaram) 2.
- ❖ **Minimum Temperature Departures (as on 26-03-2025):** Minimum temperatures are **markedly above normal (5.1°C or more)** at isolated places over Himachal Pradesh, West Rajasthan; **appreciably above normal (3.1°C to 5.0°C)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Delhi; at isolated places over Gujarat Region, West Madhya Pradesh; **above normal (1.6°C to 3.0°C)** a few places over Punjab, Madhya Maharashtra; at isolated places over Uttarakhand, West Uttar Pradesh, Rajasthan, Bihar, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Saurashtra & Kutch, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal. These are **below normal (-3.0°C to -1.6°C)** at a few places over East Madhya Pradesh, Chhattisgarh, Vidarbha; at isolated places over Gangetic West Bengal, Telangana and near normal over rest parts of the country (**Fig. 4**). Today, the **lowest minimum temperature** of 14.1°C is reported at **Nahan (Haryana)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 25-03-2025):** Maximum Temperatures were **markedly above normal (5.1°C or more)** at isolated places over Himachal Pradesh and Haryana-Chandigarh-Delhi, West Uttar Pradesh; **appreciably above normal (3.1°C to 5.0°C)**) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, West Madhya Pradesh, Gujarat Region, Assam & Meghalaya, Rajasthan; **above normal (1.6°C to 3.0°C)** at a few places over Saurashtra & Kutch, Konkan & Goa; at isolated places over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Marathwada, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim. These were **below normal (-3.0°C to -1.6°C)** at isolated places over Gangetic West Bengal, Jharkhand, Telangana and near normal over rest parts of the country (**Fig. 2**). Yesterday, the highest **maximum temperature** of 41.5°C was reported at **Ahmedabad (Gujarat Region)** over the country.

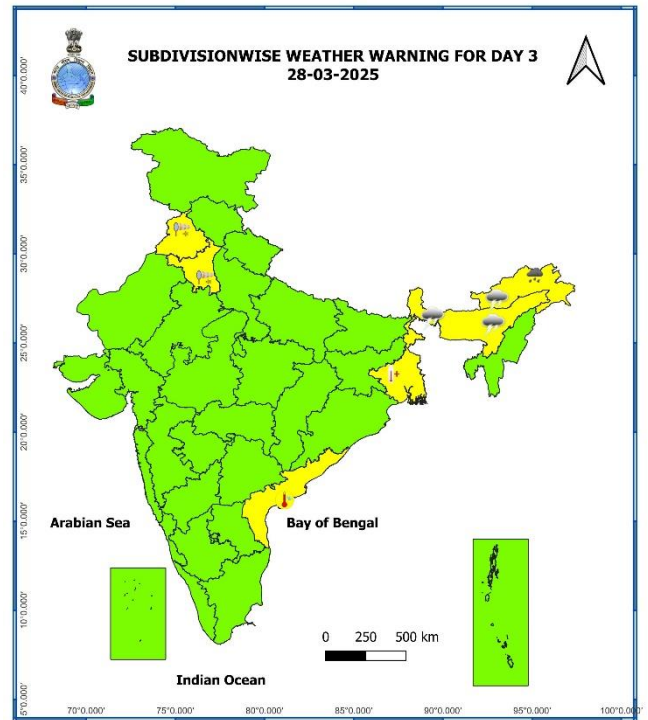
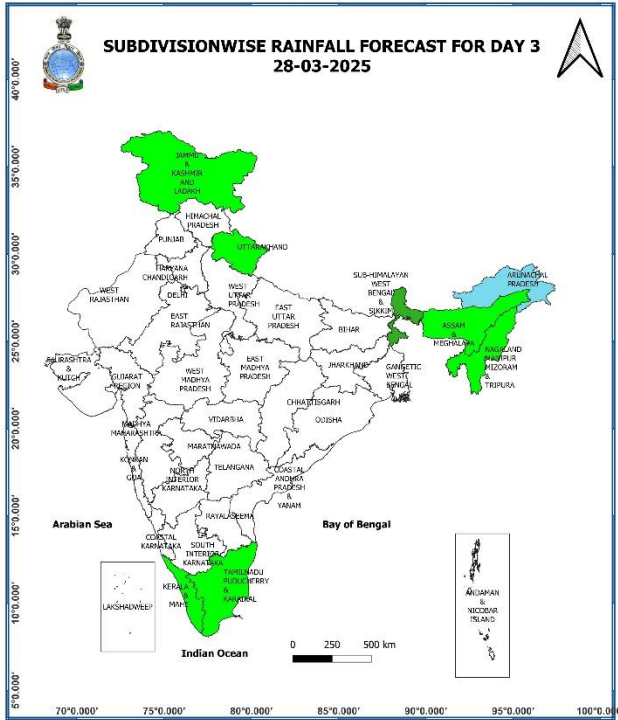
Meteorological Analysis (Based on 0830 hours IST)

- ❖ The **Western Disturbance** as a trough in middle & upper tropospheric level with its axis at 5.8 km above mean sea level roughly along Long. 60°E to the north of Lat. 25°N persists.
- ❖ The upper air **cyclonic circulation** over central Pakistan & neighbourhood persists and now extends upto 3.1 km above mean sea level.
- ❖ The north-south **trough** from south Chhattisgarh to North Interior Tamil Nadu now runs from south Chhattisgarh to Gulf of Mannar across interior Maharashtra, interior Karnataka, interior Tamil Nadu at 0.9 km above mean sea level.
- ❖ A **cyclonic circulation** lies over Gulf of Mannar & neighbourhood at 1.5 km above mean sea level.



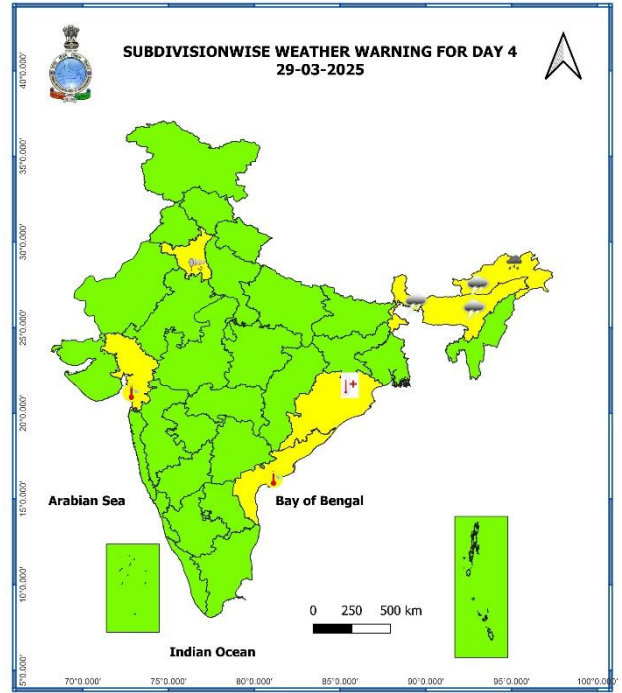
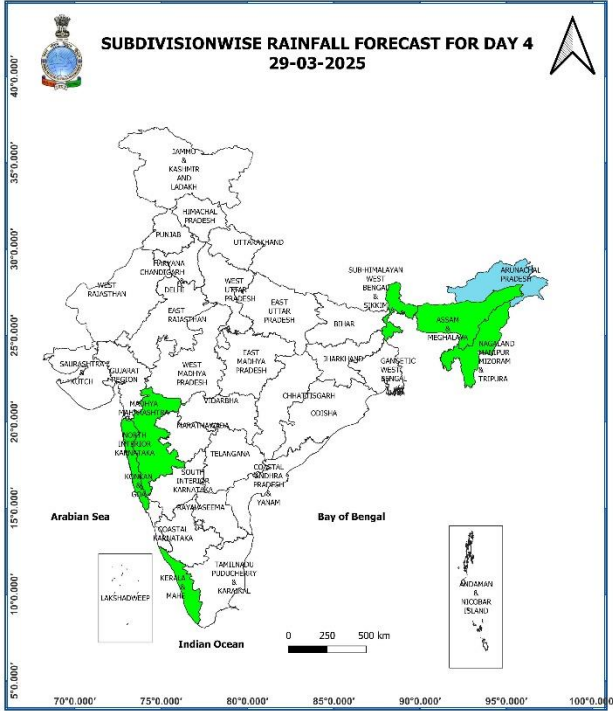
27th March (Day 2):

- ❖ **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, Himachal Pradesh; **with gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Uttarakhand, Punjab, South Interior Karnataka; **with lightning** likely at isolated places over Coastal Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Dust raising winds (speed reaching 20 - 30 kmph)** very likely at isolated places over West Rajasthan.
- ❖ **Hot day conditions** very likely at isolated pockets of West Uttar Pradesh.



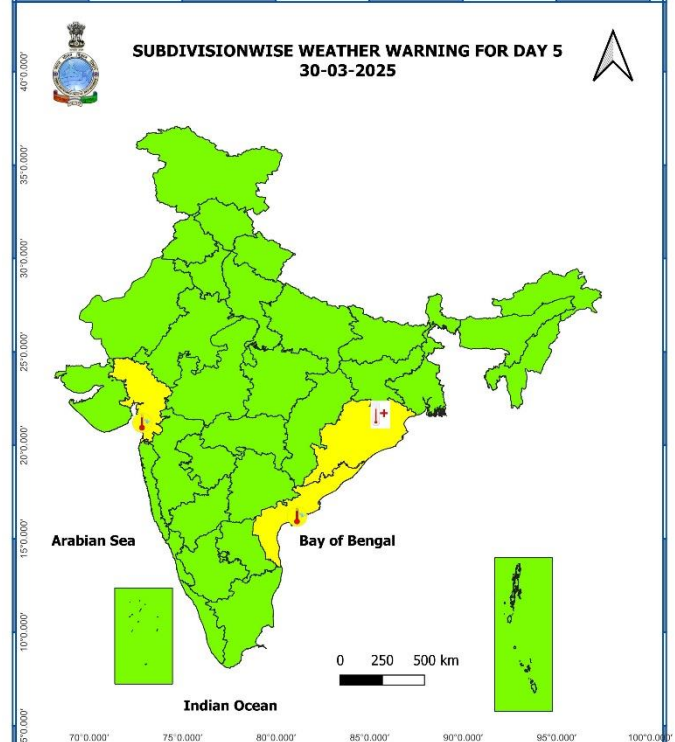
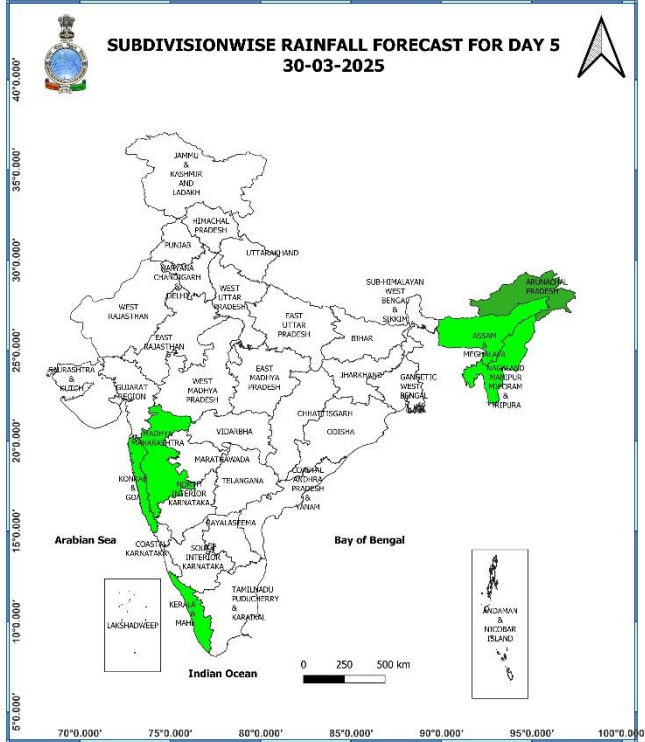
28th March (Day 3):

- ❖ **Heavy rainfall/snowfall** very likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim.
- ❖ **Hot and Humid Conditions** very likely at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Hot day conditions** very likely at isolated pockets of Gangetic West Bengal.
- ❖ **Hot and Humid Conditions** very likely at isolated places over Coastal Andhra Pradesh & Yanam.



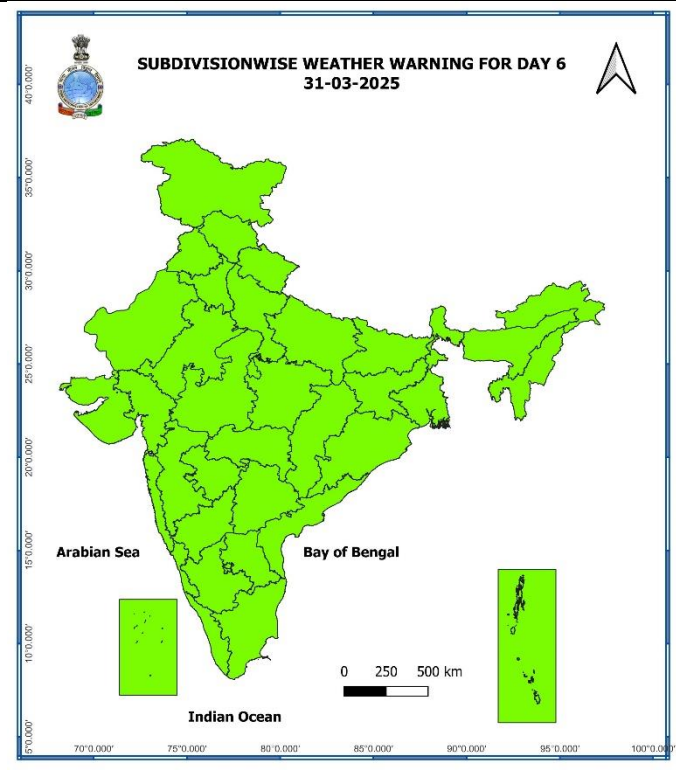
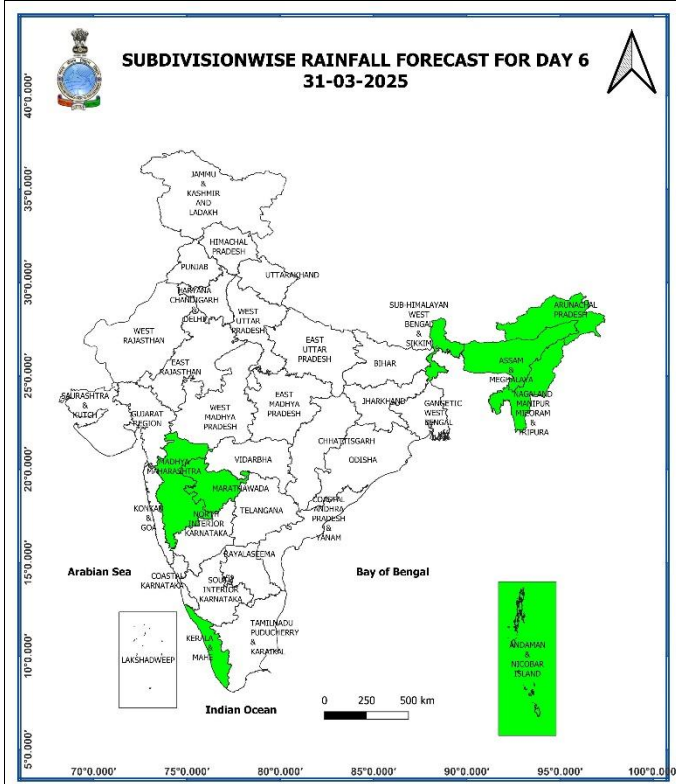
29th March (Day 4):

- ❖ **Heavy rainfall/snowfall** likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, 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 Gujarat Region.



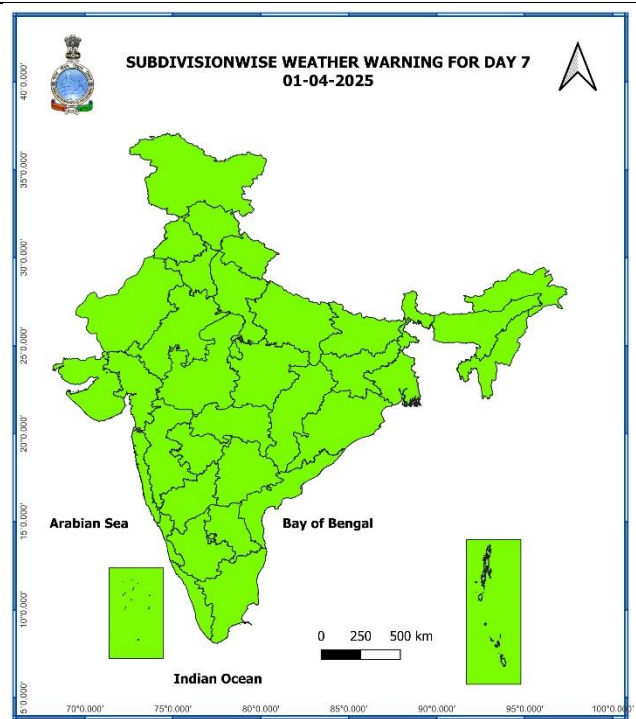
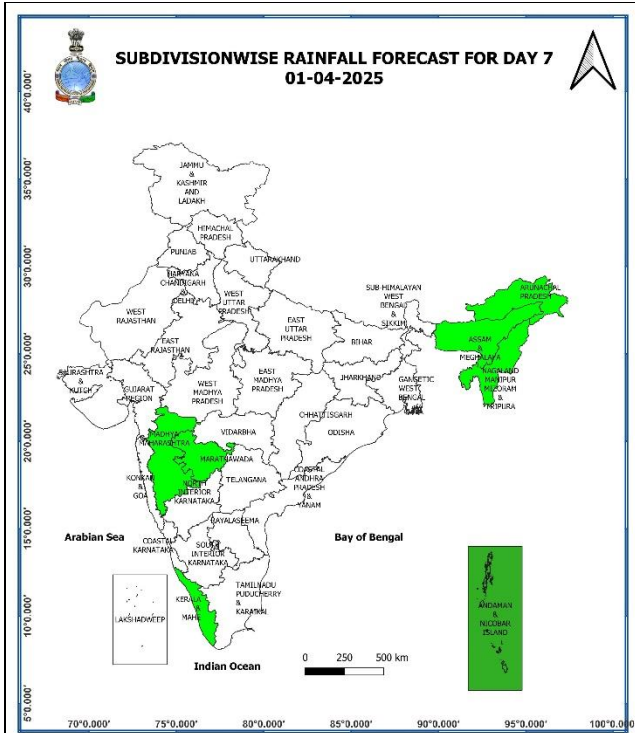
30th March (Day 5):

- ❖ **Heat wave conditions** likely at isolated places over interior Odisha.
- ❖ **Hot and Humid Conditions** likely at isolated places over Coastal Andhra Pradesh & Yanam and Gujarat Region.



31st March (Day 6):

❖ **No warning.**



01st April (Day 7):

❖ **No warning.**

Weather Outlook for subsequent 3 days (During 02nd April- 04th 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

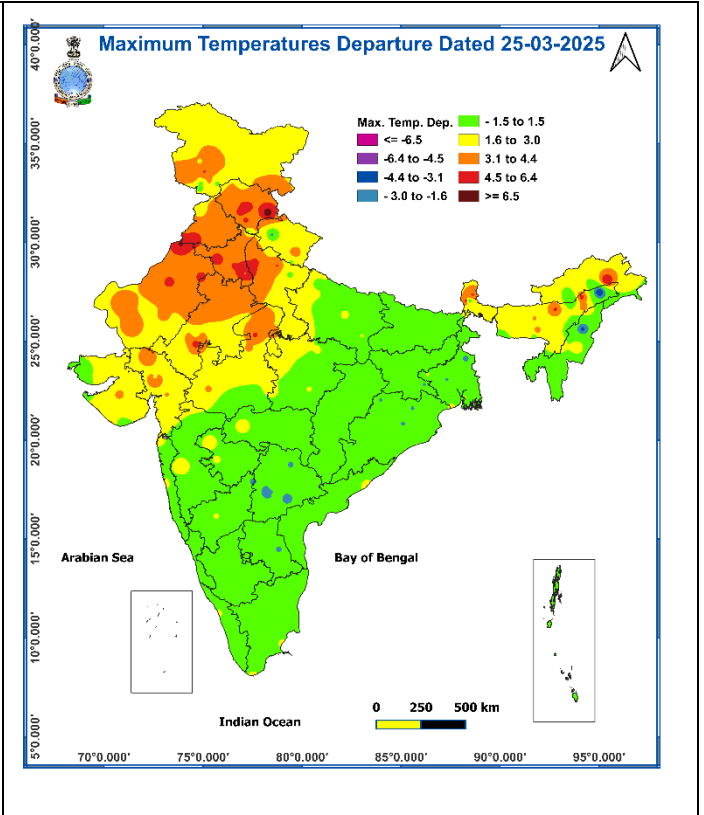
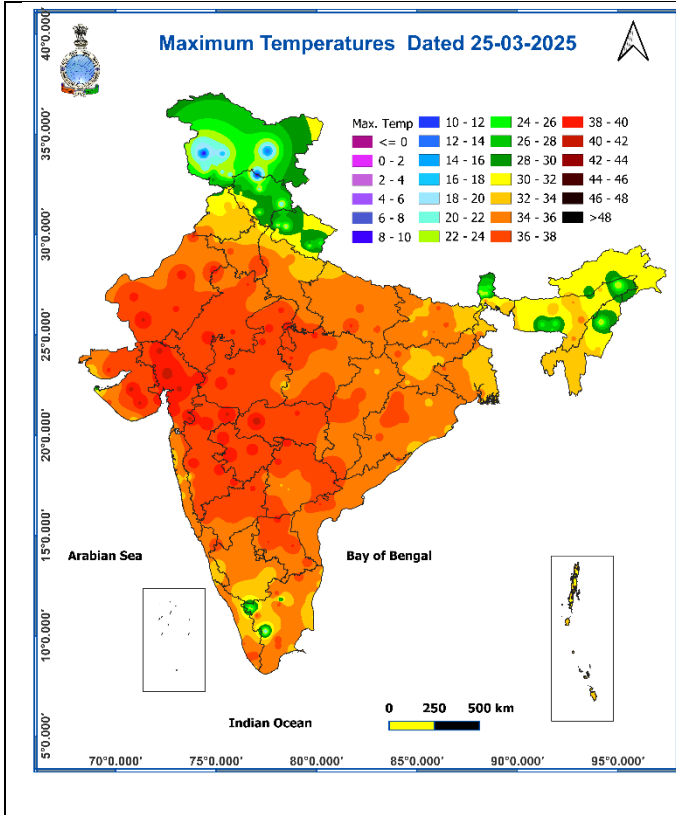


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

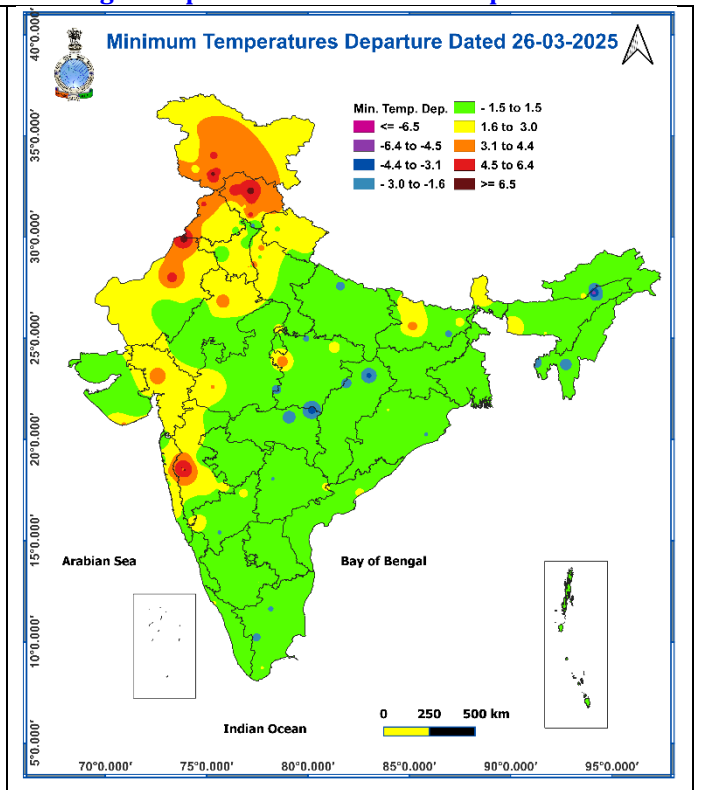
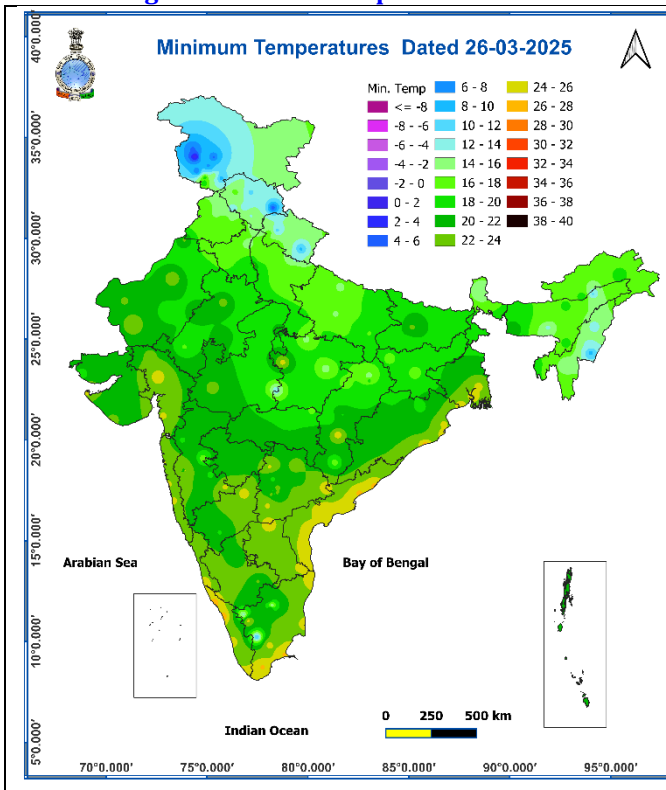
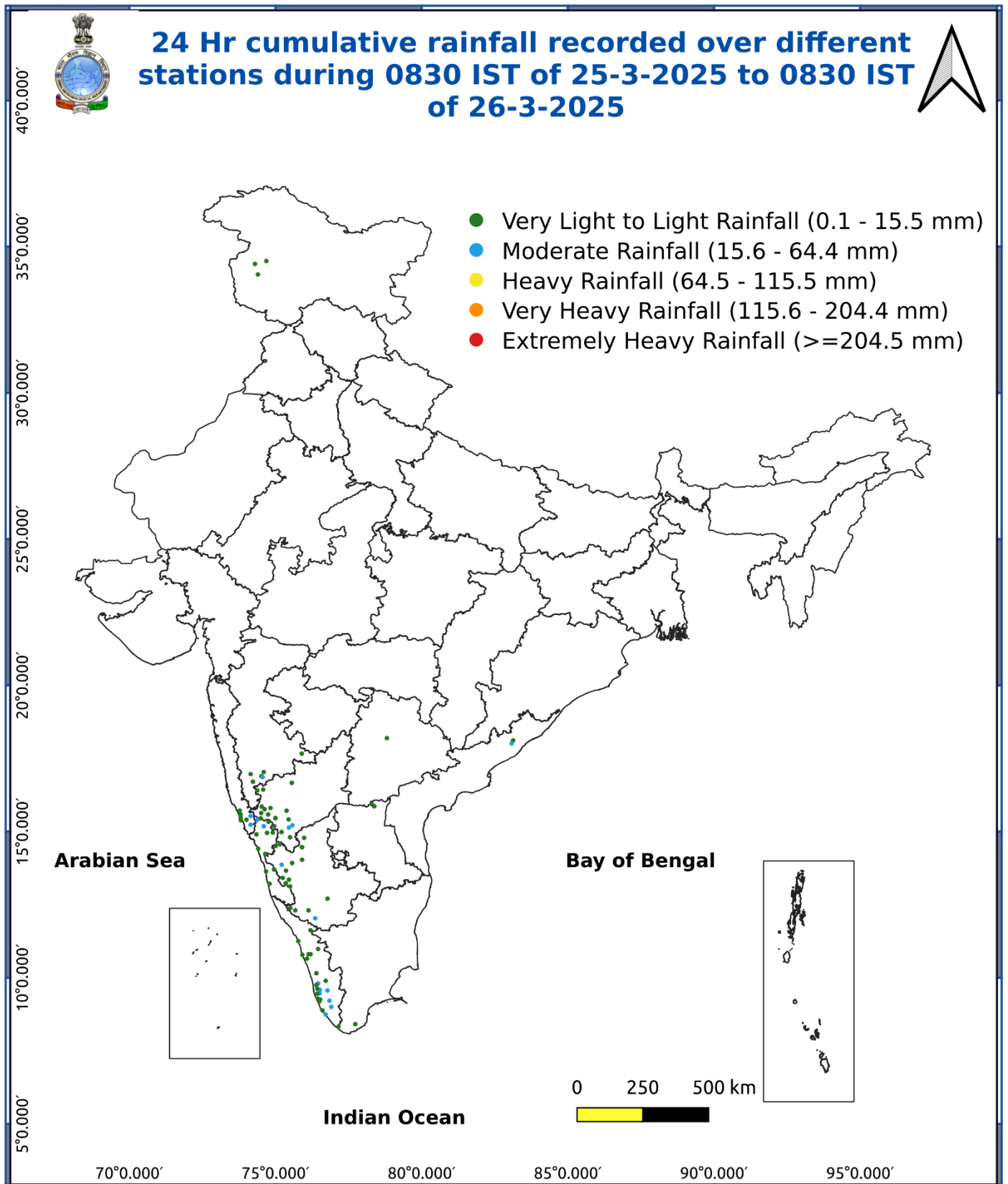


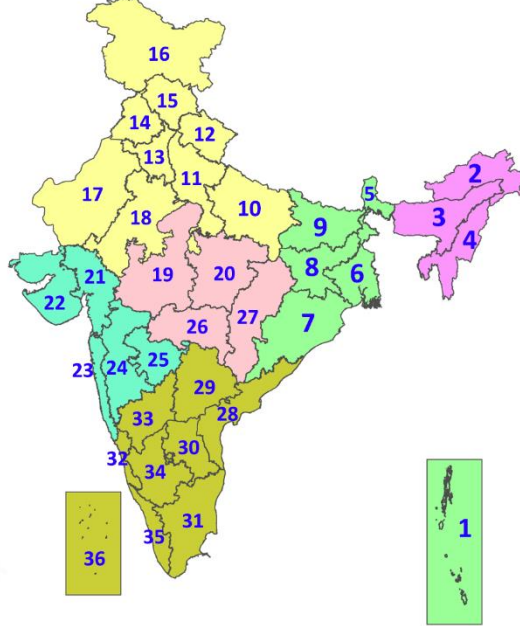
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



* 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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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°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)