

Friday, March 7, 2025
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and warning:

- ❖ A fresh **Western Disturbance** is likely to affect Western Himalayan region from 09th March, 2025. Under its influence;
 - ✓ **Scattered to fairly widespread** light/moderate rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh during 09th - 12th and **Isolated** light/moderate rainfall/snowfall likely over Uttarakhand during 10th -12th March.
- ❖ A trough runs roughly along Long. 89°E to the north of Lat. 21°N and a **cyclonic circulation** lies over northeast Assam in lower tropospheric levels. Under their influence,
 - ✓ **Scattered light/moderate rainfall/snowfall** accompanied with **thunderstorm and lightning** likely over Arunachal Pradesh, Assam on 07th; and over Nagaland on 07th March.
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** likely over Bihar on 08th; with **thunderstorm & lightning** over Sikkim on 07th & 08th March.

Temperature Forecast:

Forecast of temperature:

Maximum temperature:

- ❖ Gradual rise in maximum temperatures by 3-5°C likely over Northwest, central India and Gujarat State during next 3-4 days.
- ❖ No significant change in maximum temperatures likely over East India during next 1 days and gradual rise by about 2-3°C thereafter.
- ❖ Gradual rise in maximum temperatures by 2-4°C likely over Maharashtra during next during next 3-4 days.

Hot & Humid weather warnings:

- ❖ **Hot and humid weather** very likely to prevail over Konkan & Goa, Kerala & Mahe, Coastal Karnataka on 07th -08th; Coastal Andhra Pradesh & Yanam on 07th; Gujarat Region on 09th & 10th March.

Heat Wave Warning:

- ❖ **Heat wave** very likely to prevail over Konkan & Goa on 09th & 10th March.

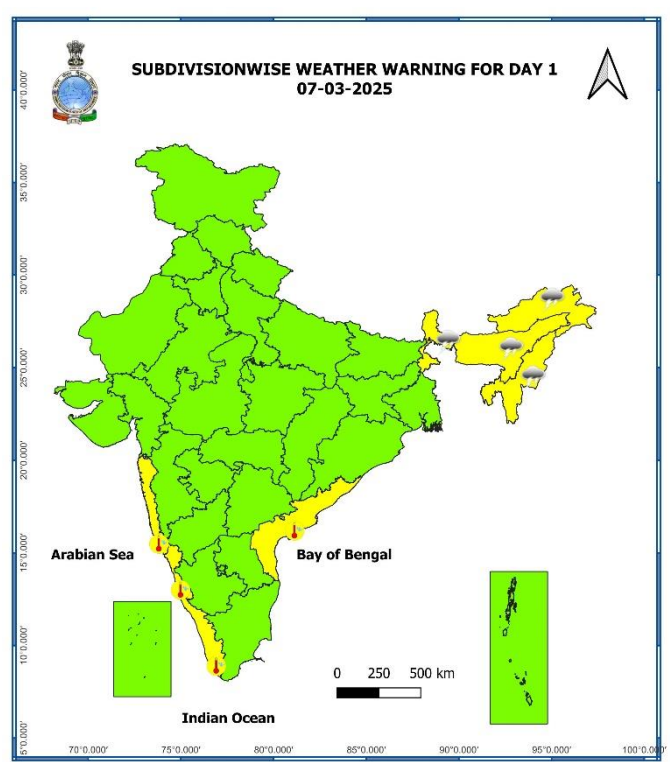
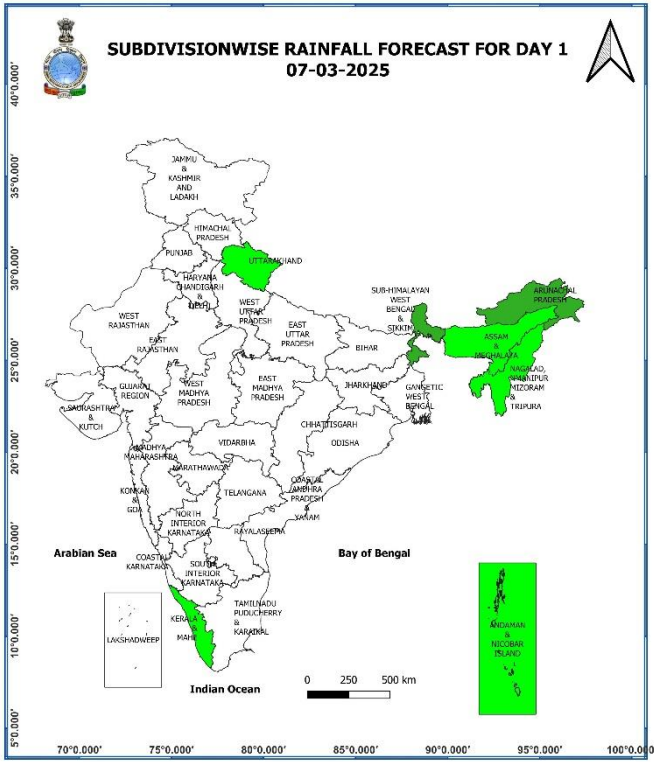
Main Weather Observations:

- ❖ **Rainfall/snowfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday) Nil
- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): Nil.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Nil**.
- ❖ **Yesterday, Thunderstorm with lightning** reported at isolated places over Arunachal Pradesh and east Assam.
- ❖ **Yesterday, Gusty winds** observed at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Uttar Pradesh, Gangetic West Bengal.
- ❖ **Minimum Temperature Departures (as on 06-03-2025):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at most places over Coastal Karnataka; at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Coastal Andhra Pradesh & Yanam, ray, South Interior Karnataka, Madhya Maharashtra. These were **markedly below normal (-5.1°C or less)** at isolated places over Madhya Pradesh, Chhattisgarh, Telangana; **appreciably below normal (-3.1°C -5.0°C)** at a few places over Gangetic West Bengal, Vidarbha, Marathwada; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, Rajasthan, East Uttar Pradesh, Gujarat state; **below normal (-3.0°C to -1.6°C)** at isolated places over West Uttar Pradesh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Himachal Pradesh and near normal over rest parts of the country (**Fig. 4**). Yesterday, the **lowest minimum temperature** of 7.6°C was reported **Kernal (Haryana)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 06-03-2025):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, West Rajasthan, Saurashtra & Kutch and Konkan & Goa; **above normal (1.6°C to 3.0°C)** at a few places over Madhya Maharashtra and Coastal Karnataka; at isolated places over Coastal Andhra Pradesh & Yanam, Telangana Gujarat Region and Uttarakhand. These were **below normal (-3.0°C to -1.6°C)** at a few places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim; at isolated places over Gangetic West Bengal, Bihar, West Uttar Pradesh and Madhya Pradesh and near normal over rest parts of the country (**Fig. 2**). Yesterday, the highest **maximum temperature** of 39.2°C was reported at **Erode (Tamil Nadu)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

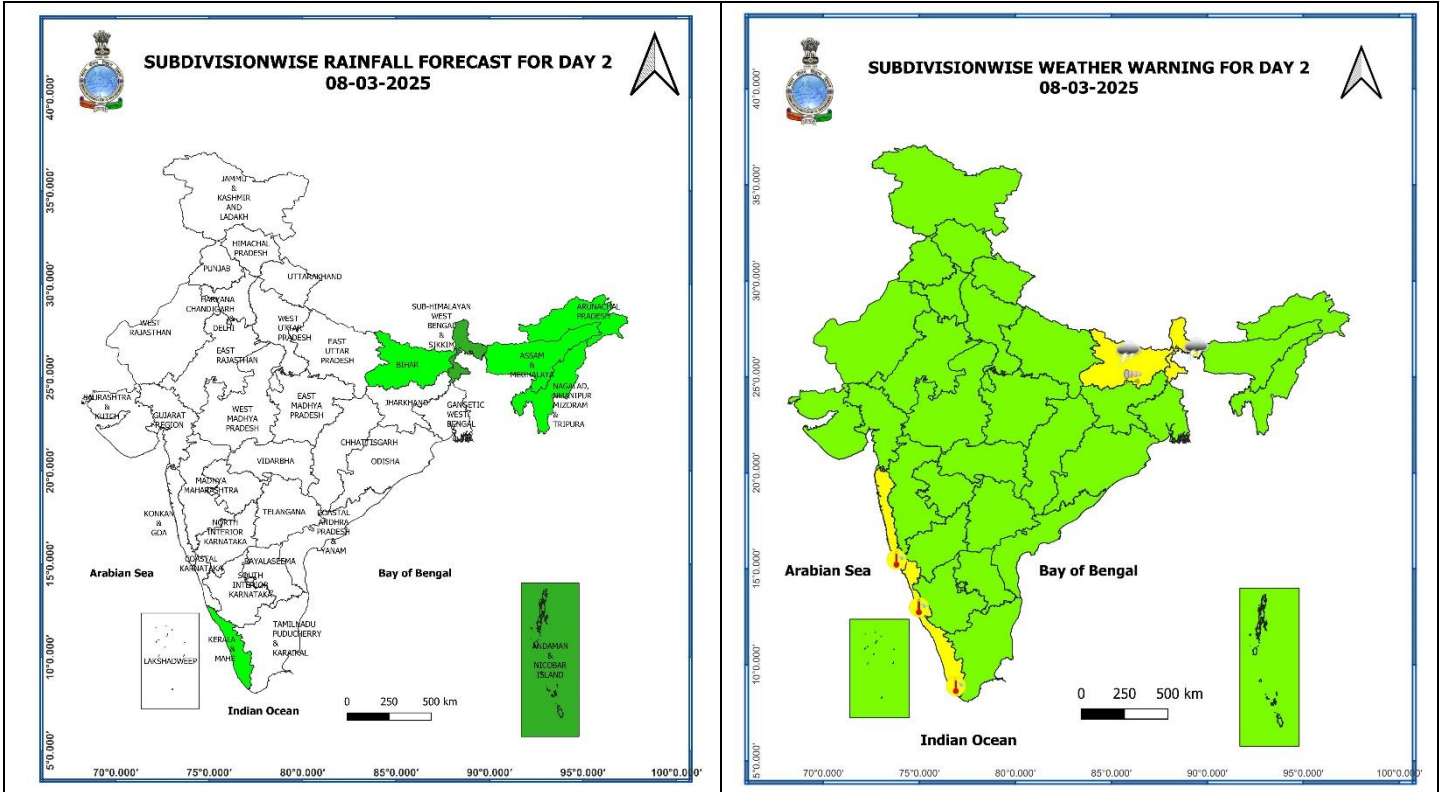
- ❖ The **cyclonic circulation** over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The **trough** now runs roughly along Long. 89°E to the north of Lat. 21°N at 3.1 km above mean sea level.
- ❖ A fresh **Western Disturbance** is likely to affect Western Himalayan region from 09th March, 2025.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 14th March, 2025)



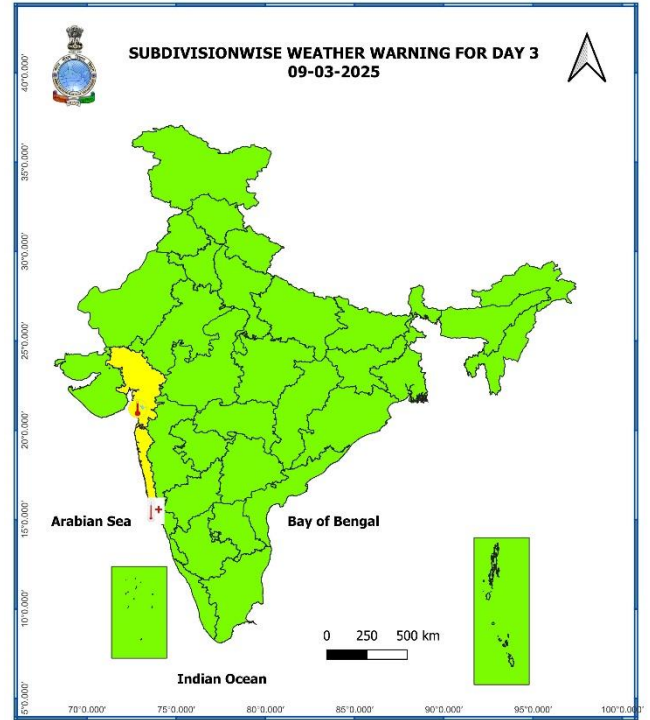
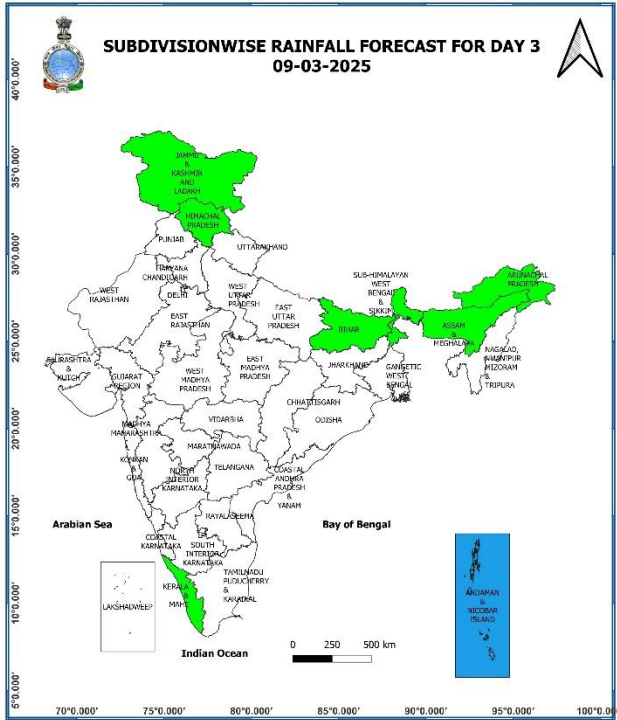
07th March (Day 1):

- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sikkim
- ❖ **Hot and Humid condition** very likely at isolated places over Konkan & Goa, Kerala & Mahe, Coastal Karnataka, Coastal Andhra Pradesh & Yanam.



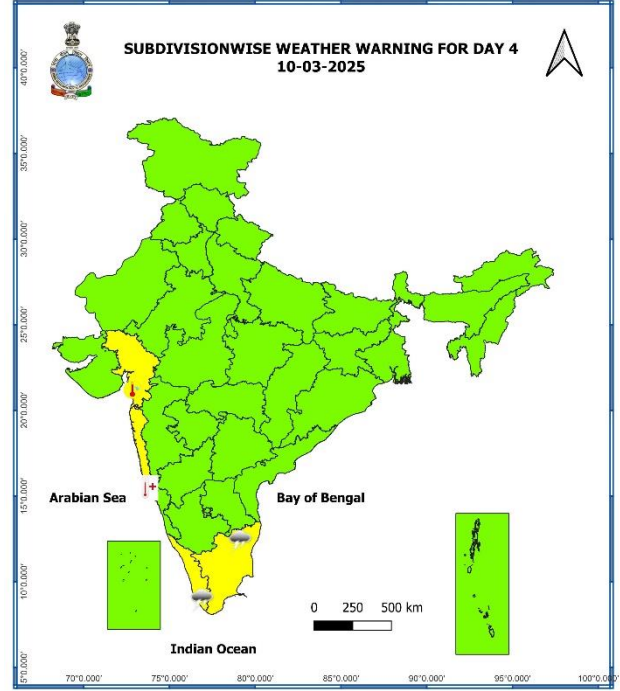
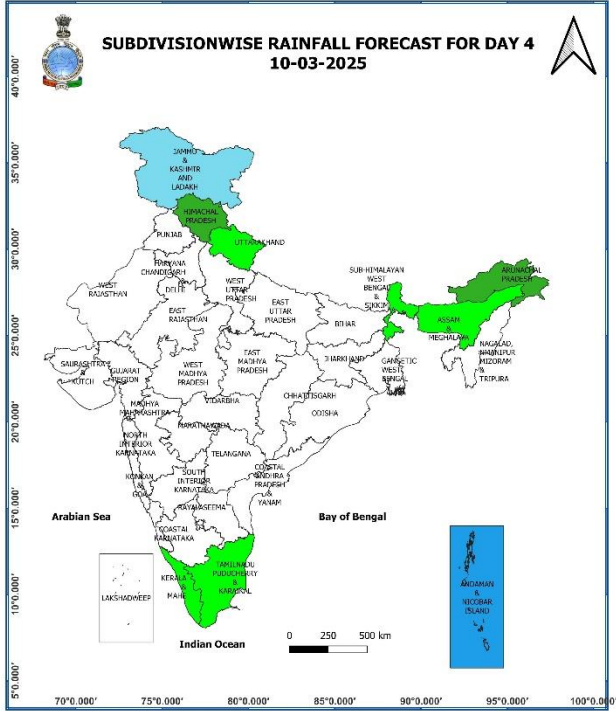
08th March (Day 2):

- ❖ **Thunderstorm accompanied with gusty wind (30-40 kmph) & lightning** likely at isolated places over Bihar; **with lightning** at isolated places over Sikkim.
- ❖ **Hot and Humid condition** very likely at isolated places over Konkan & Goa, Kerala & Mahe and Coastal Karnataka.



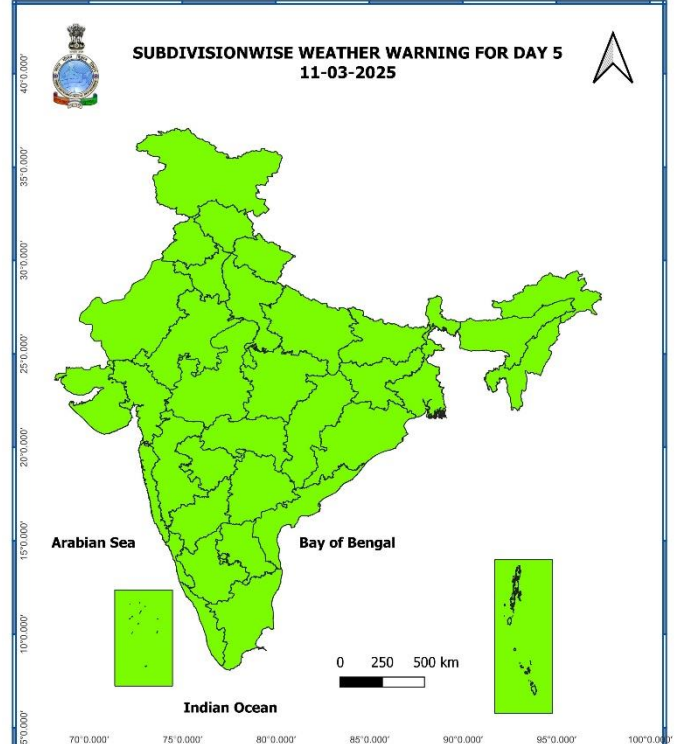
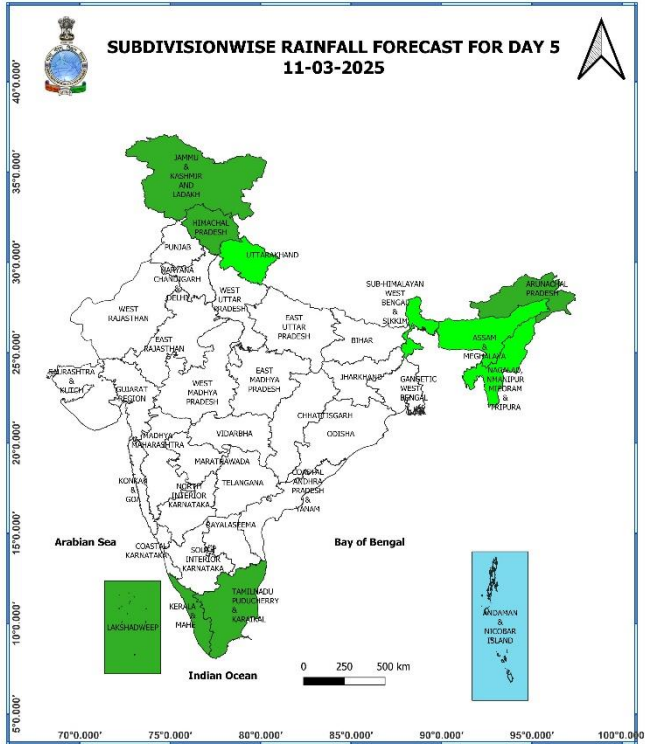
09th March (Day 3):

- ❖ **Heat Wave Condition** likely at isolated places over Konkan & Goa.
- ❖ **Hot and Humid condition** likely at isolated places over Gujarat Region.



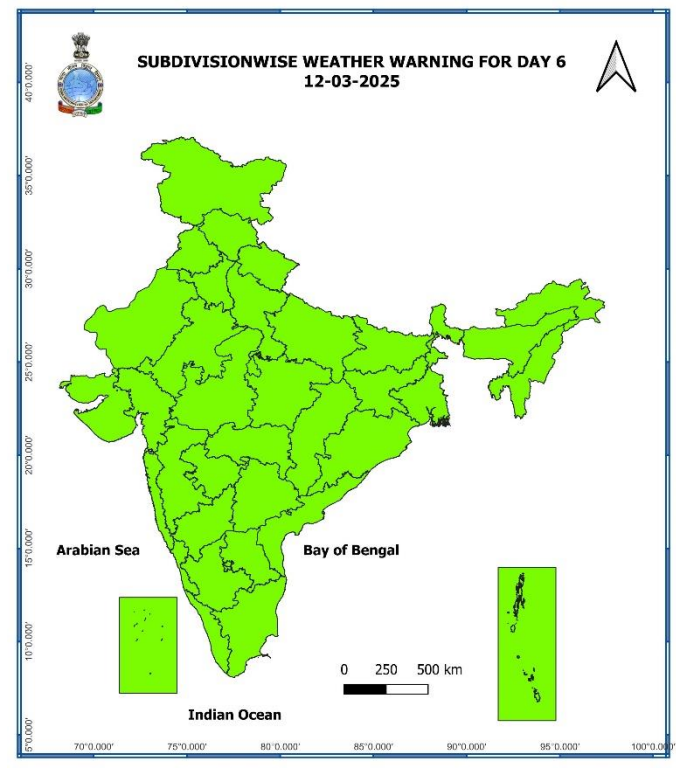
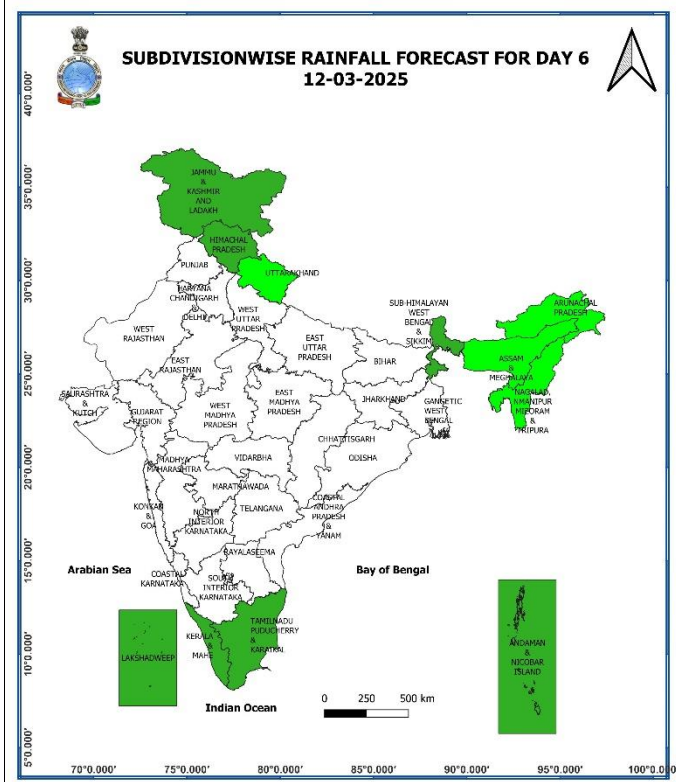
10th March (Day 4):

- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Heat Wave Condition** very likely at isolated places over Konkan & Goa.
- ❖ **Hot and Humid condition** very likely at isolated places over Gujarat Region.



11th March (Day 5):

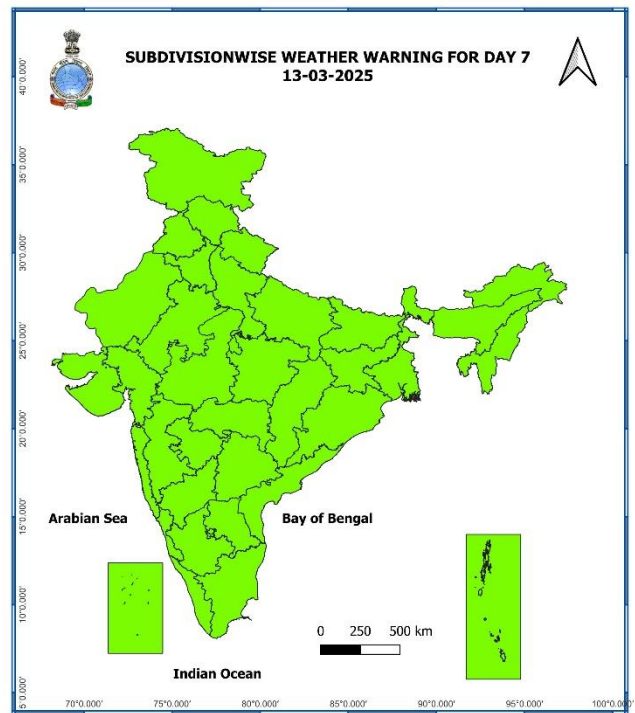
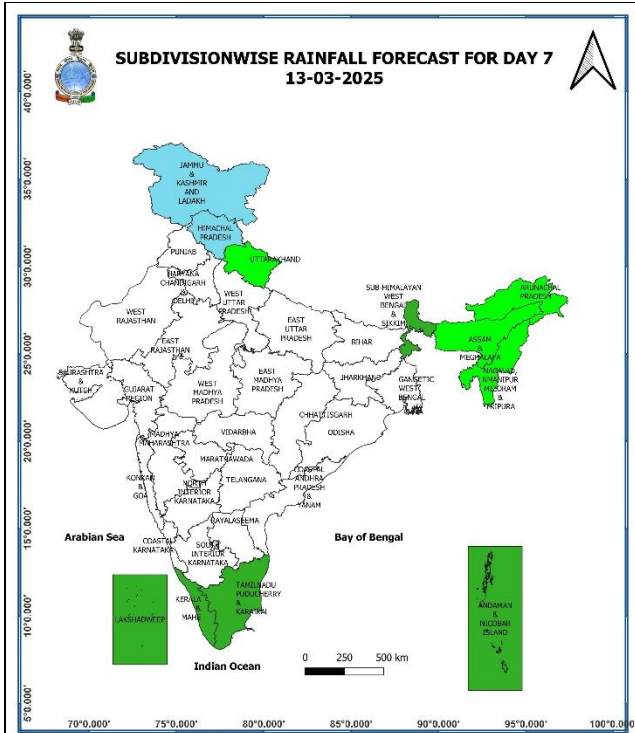
❖ **No Weather Warning.**



12th March (Day 6):

❖ **No Weather Warning.**

*** 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)



13th March (Day 7):

❖ **No Weather Warning.**

Weather Outlook for subsequent 3 days (During 14th March- 16th March, 2025)

- ❖ **Scattered to fairly widespread rainfall/snowfall** likely over Western Himalayan region.
- ❖ **Isolated to scattered rainfall** likely over Arunachal Pradesh, Northeast Assam, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands.

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

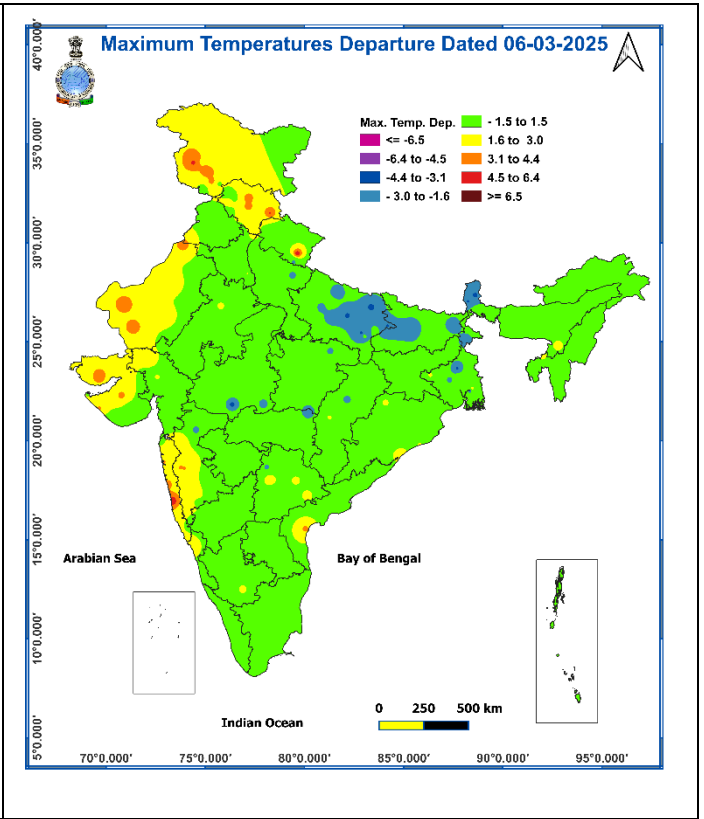
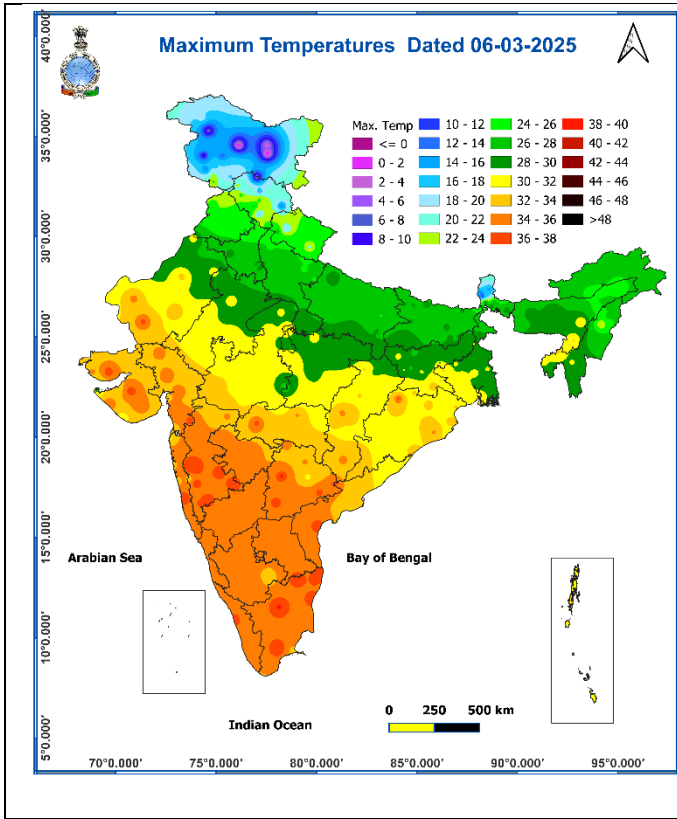


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

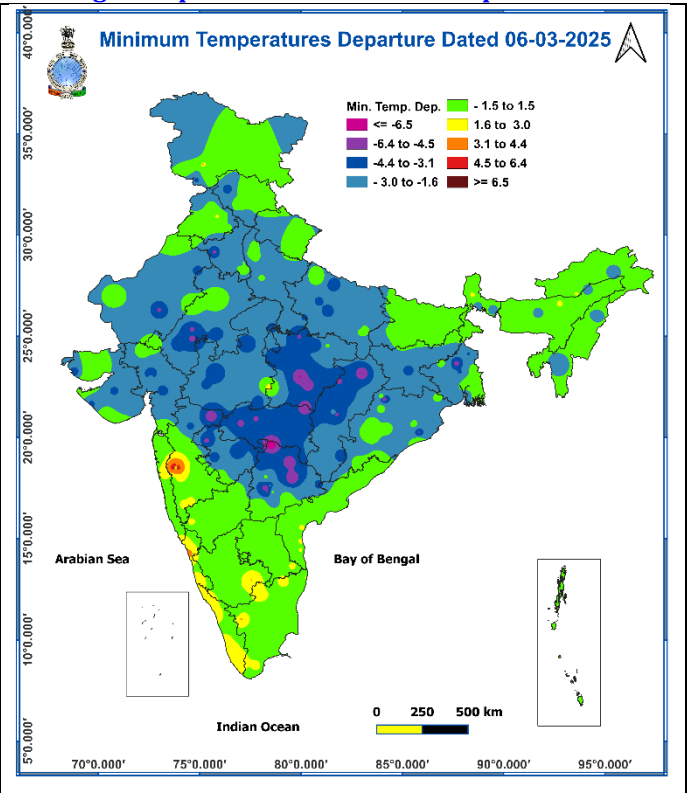
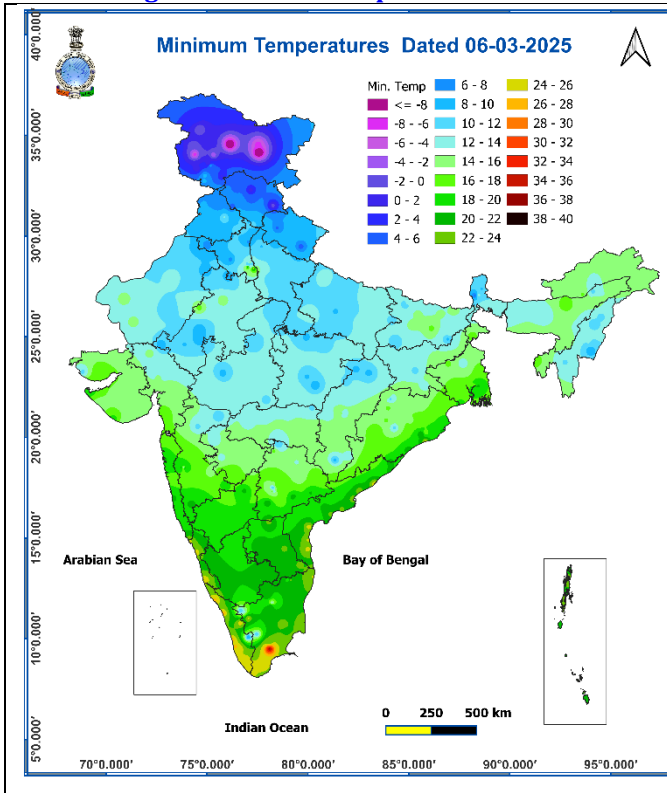
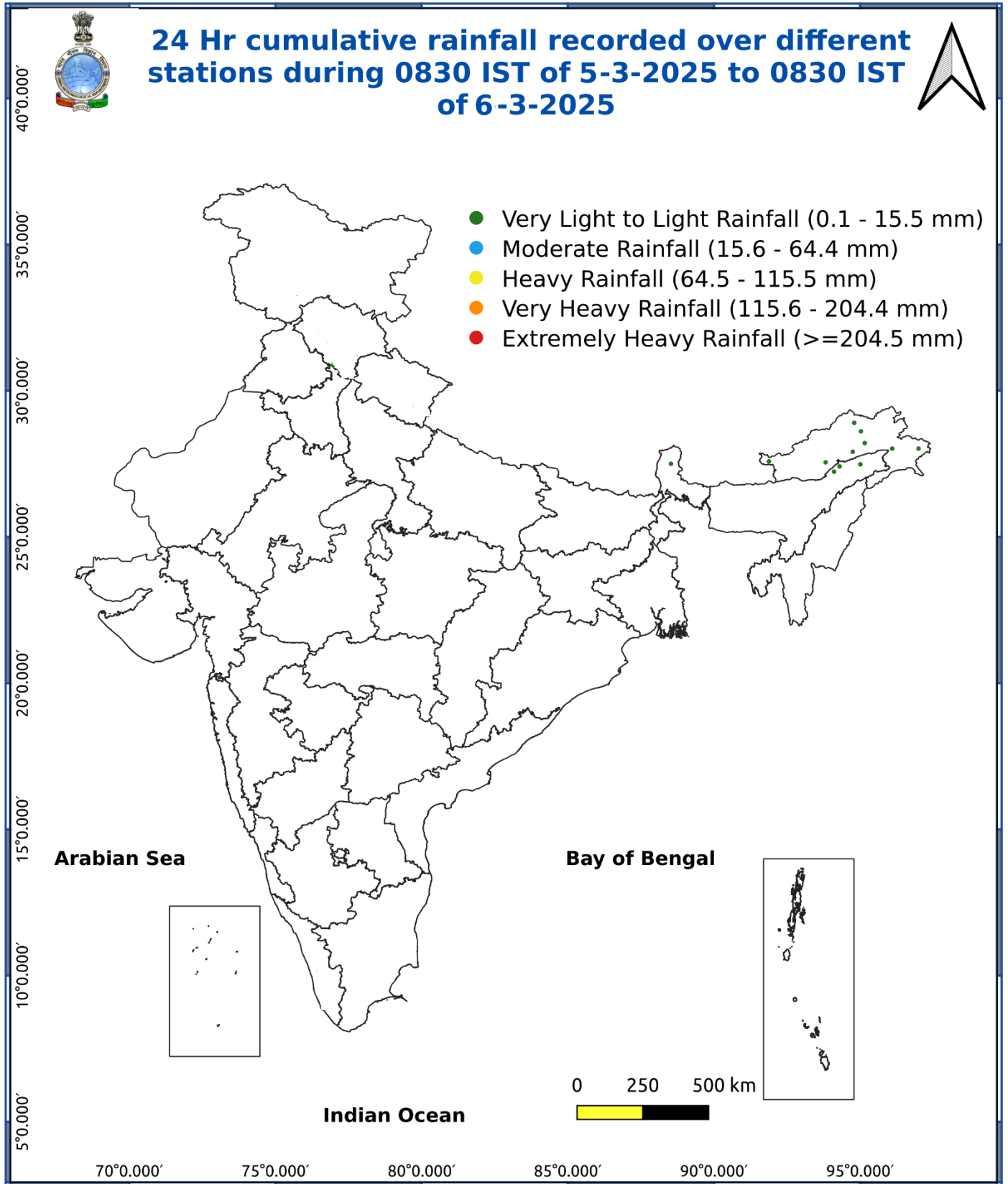


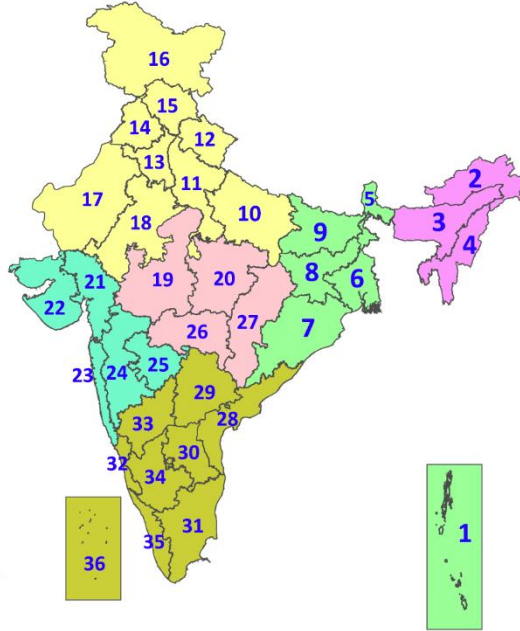
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



* 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
(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°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)