राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

Saturday, February 8, 2025
Time of Issue: 0745 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and warning:

- A **cyclonic circulation** lies over northeast Assam & neighbourhood in lower tropospheric level. Under its influence,
  - ✓ Isolated to scattered light to moderate rainfall accompanied with thunderstorm & lightning likely over Arunachal Pradesh and northeast Assam on 10th & 11th February.
- A **Western Disturbance** is seen as a trough in lower tropospheric level with its axis at 3.1 km above mean sea level runs roughly along Long. 55°E to the north of Lat. 30°N. Under its influence,
  - ✓ Isolated to scattered light rainfall/snowfall activity likely over Western Himalayan Region during 08th-12th February, 2025.

Forecast of temperature:

- Gradual rise in minimum temperatures by 2-3°C likely over Northwest India during next 3 days and no significant change thereafter.
- Gradual fall in minimum temperatures by about 2-3°C likely over Central India during next 2 days and gradual rise by 2-4°C during subsequent 3 days.
- No significant change in minimum temperatures likely over East India for next 3 days and gradual rise by 2-4°C during subsequent 2 days.
- Gradual rise in minimum temperatures by 2-3°C likely after 24 hours over Maharashtra during subsequent 4 days.
- Gradual rise in maximum temperatures by 2-4°C likely over Maharashtra and Central India during next 4-5 days.

Dense Fog Warnings:

- **Dense fog conditions** very likely to continue to prevail during early morning hours in isolated pockets of Odisha till 09th February.

Main Weather Observations:

- **Rainfall/Snowfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Arunachal Pradesh, Assam & Meghalaya.

- **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**.

- **Fog reported** (at 0530 hours IST of today): **Shallow fog** in isolated pockets of Assam and Tripura.

- **Visibility reported** (at 0530 hours IST of today) (≤500 m): **Assam:** North Lakhimpur 500; **Tripura:** Kailashahar 500.

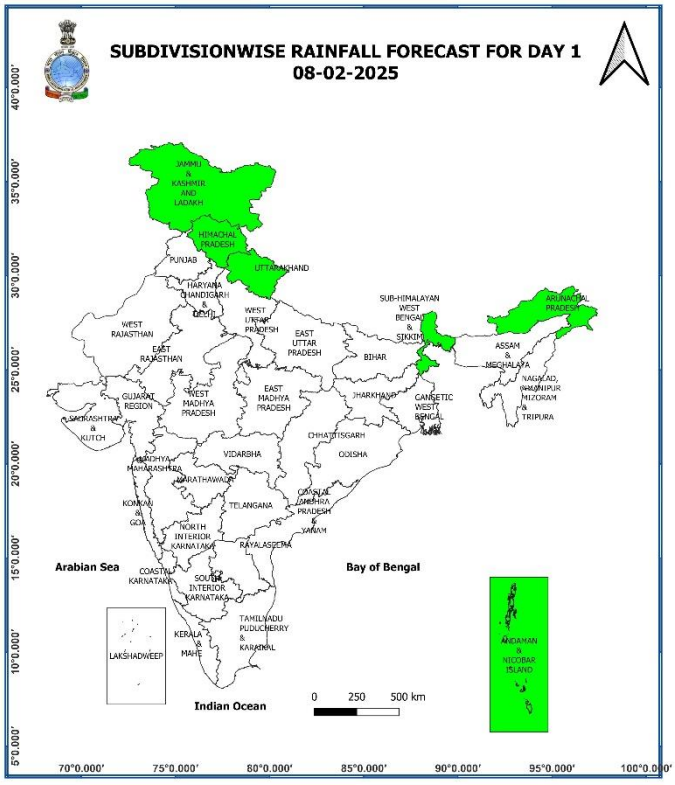
- **Minimum Temperature Departures (as on 07-02-2025):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Madhya Maharashtra and Konkan & Goa; at isolated places over Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at a few places over Odisha; at isolated places over Gujarat state, Chhattisgarh, Telangana and Coastal Andhra Pradesh & Yanam. These were **below normal (-1.6°C to -3.0°C)** at a few places over East Rajasthan, East Uttar Pradesh, Madhya Pradesh; at isolated places over West Uttar Pradesh, Haryana-Chandigarh-Delhi, Bihar, Jharkhand, Gangetic West Bengal, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country **(Fig. 4)**. Yesterday, the **lowest minimum temperature** of **2.1°C** was reported at **Fatehpur (Rajasthan)** over the plains of the country.

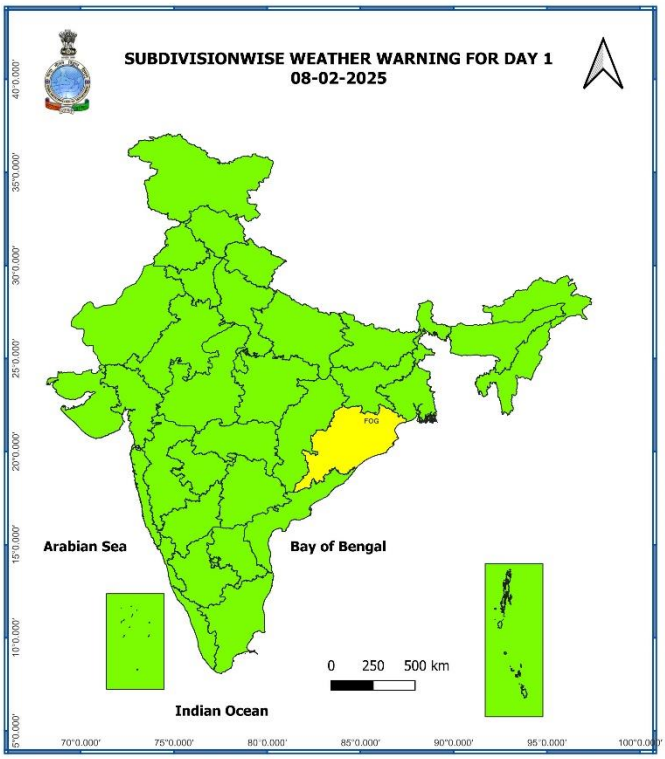
- **Maximum Temperature Departures (as on 07-02-2025**): Maximum temperatures were **markedly above normal (5.1°C or above)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Odisha, Coastal Andhra Pradesh & Yanam, Konkan & Goa, Telangana; **above normal (1.6°C to 3.0°C)** at many places over North Interior Karnataka, Madhya Maharashtra; at a few places over Rayalaseema, Saurashtra & Kutch, Marathwada, Gangetic West Bengal; at isolated places over Uttarakhand, Punjab, West Rajasthan, Assam & Meghalaya, Gujarat region, Chhattisgarh, Jharkhand. These were **markedly below normal (-5.1°C or below)** at isolated places over Arunachal Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Nagaland, Manipur, Mizoram & Tripura, West Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at isolated places over East Madhya and near normal over rest parts of the country (Fig. 2). Yesterday, the highest **maximum temperature of 37.1°C** was reported at **Nandigama (Coastal Andhra Pradesh)** over the plains of the country.

Meteorological Analysis (Based on 0530 hours IST)

- The **Western Disturbance** as a trough in lower tropospheric level with its axis at 3.1 km above mean sea level roughly along Long. 55°E to the north of Lat. 30°N persists.
- The **cyclonic circulation** over northeast Assam & neighbourhood between 1.5 & 3.1 km above mean sea level persists.
- Subtropical **westerly Jet Stream** with core winds of the order upto 135 knots at 12.6 km above mean sea level continues to prevail over Northeast India.

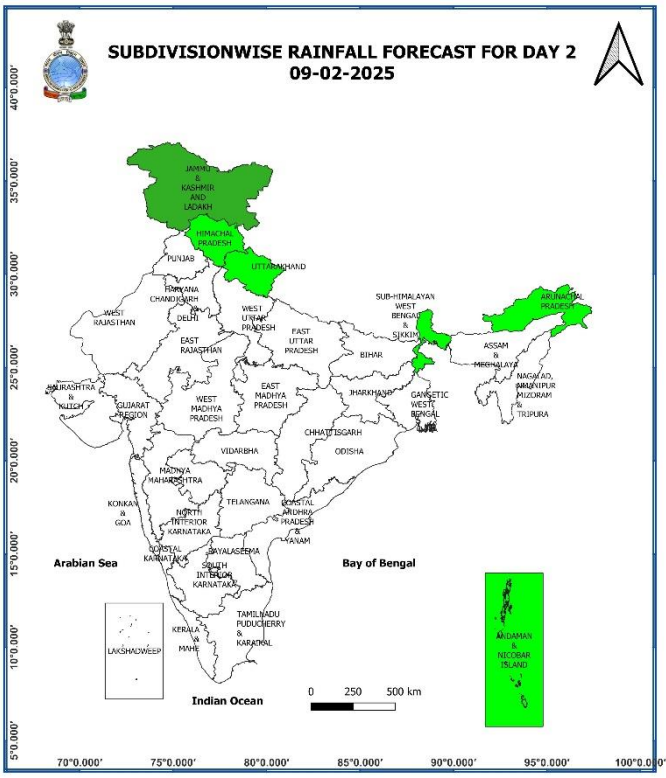
Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 15th February, 2025)

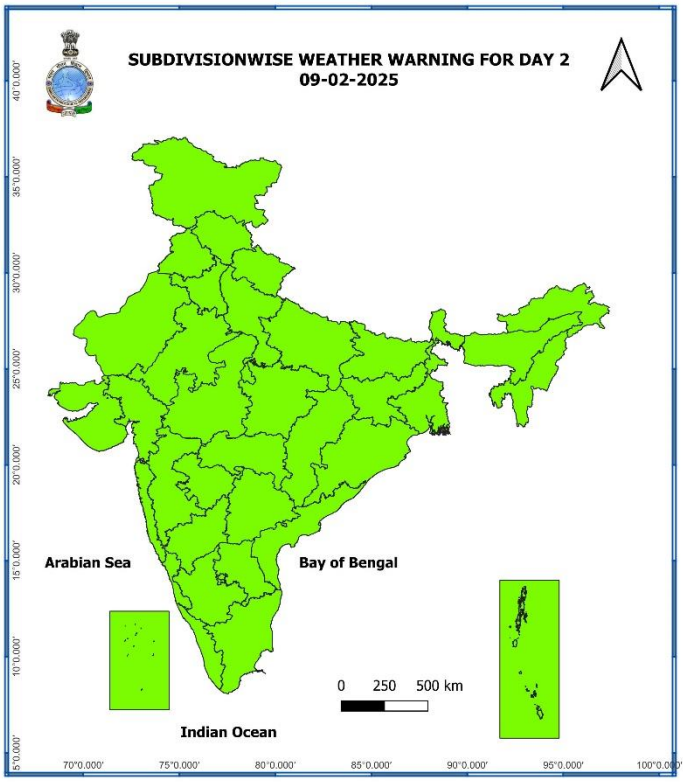




08th February (Day 1):

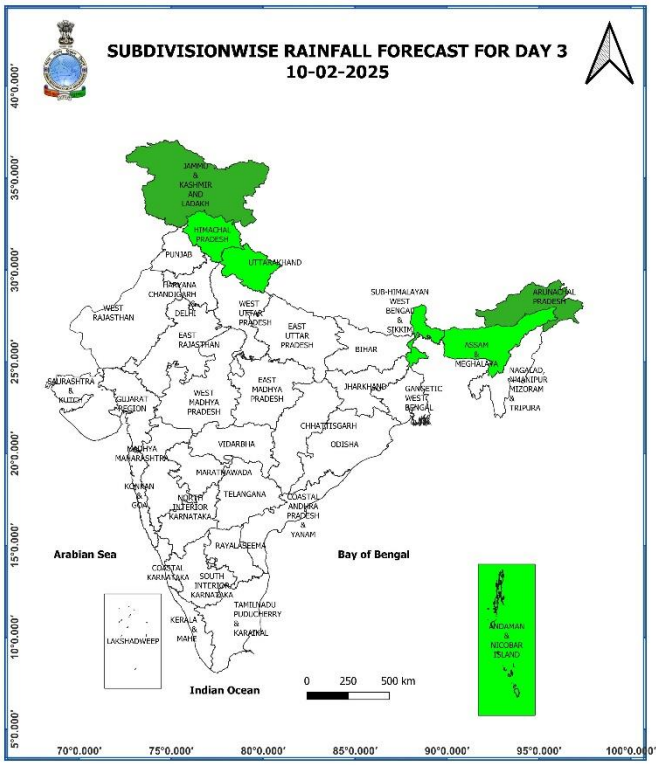
❖ **Dense fog conditions** very likely in isolated pockets of Odisha.

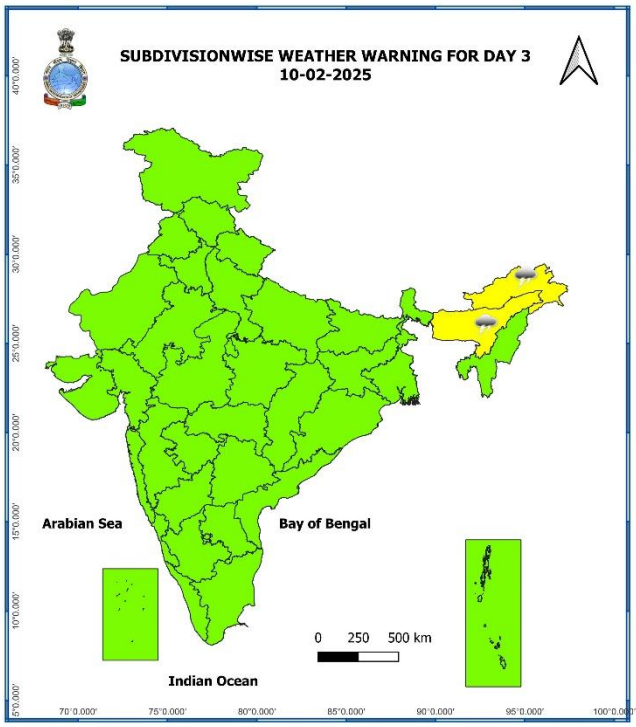




09th February (Day 2):

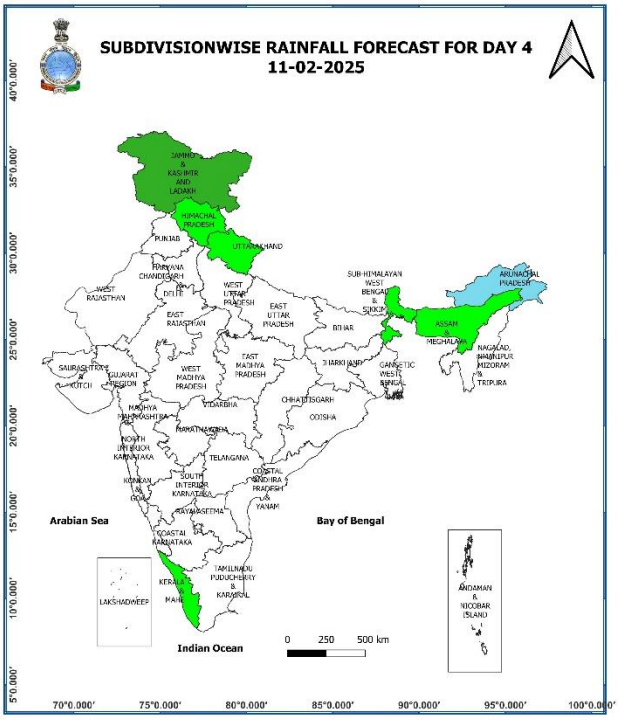
❖ **No Weather Warning.**

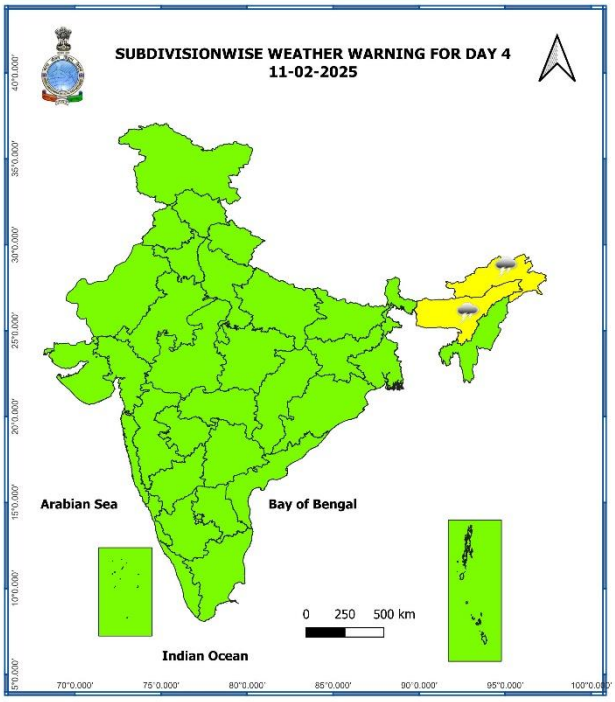




10th February (Day 3):

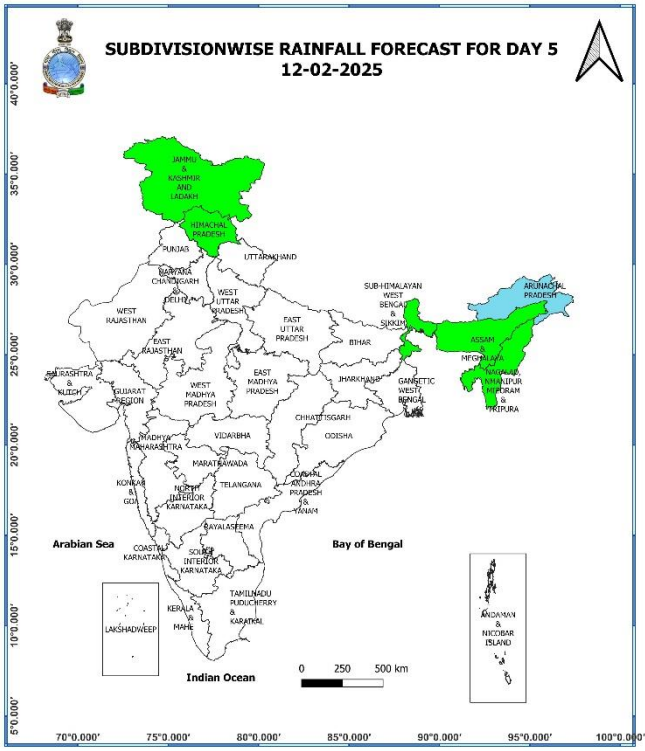
- **Thunderstorm accompanied with lightning** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya**.**

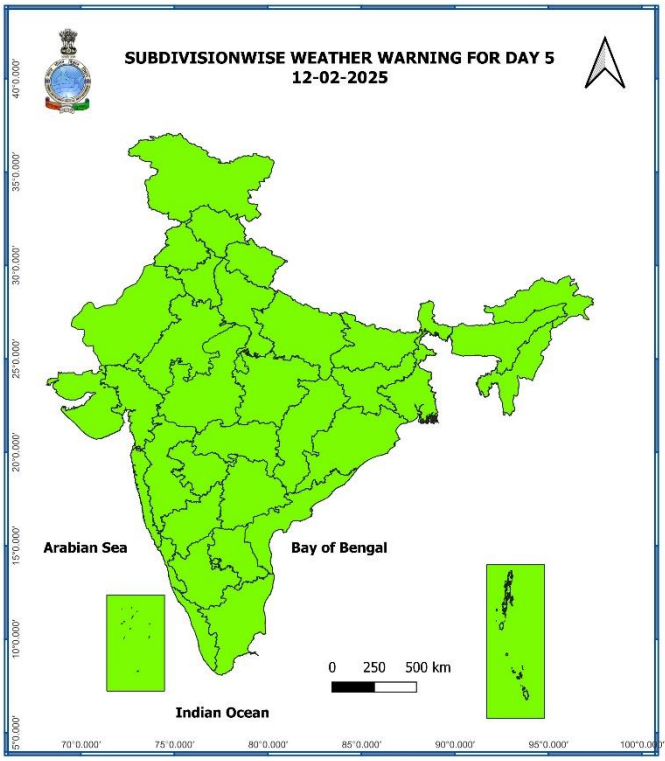




11th February (Day 4):

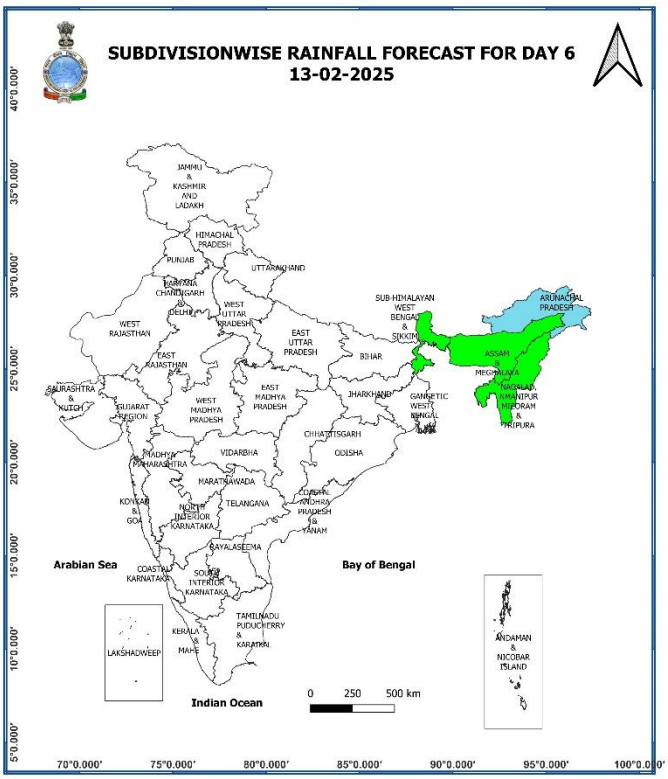
- **Thunderstorm accompanied with lightning** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.

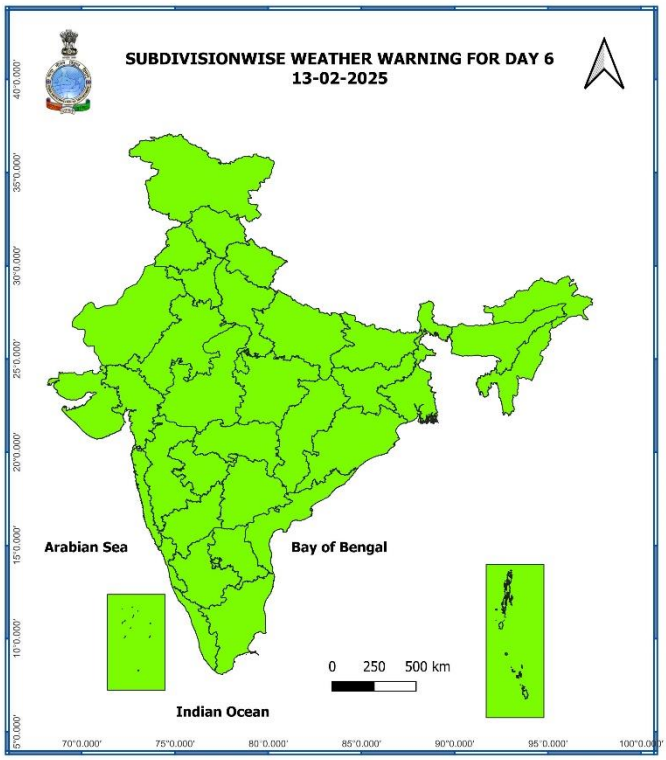




12th February (Day 5):

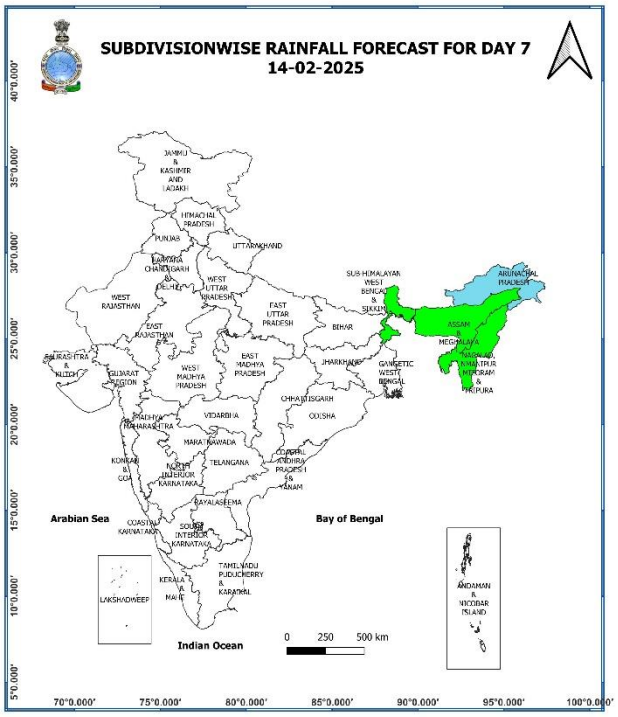
❖ **No Weather Warning.**

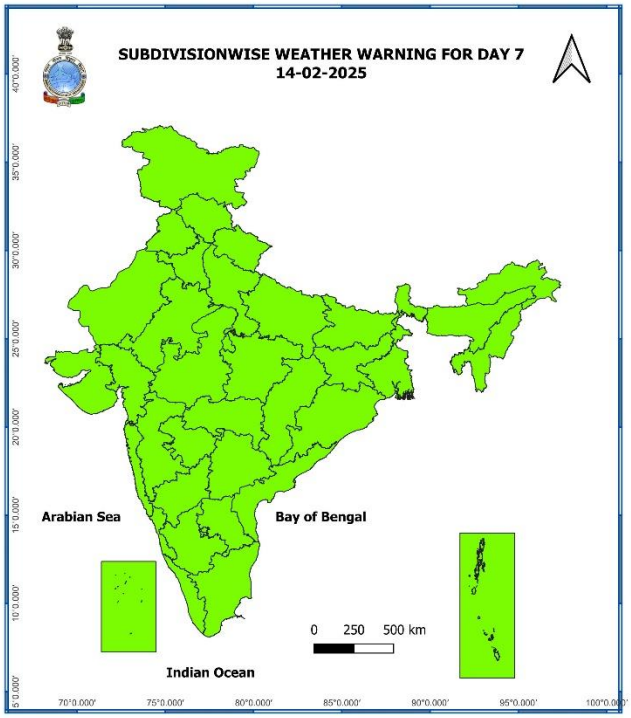




13th February (Day 6):

❖ **No Weather Warning.**





14th February (Day 7):

❖ **No Weather Warning.**

Weather Outlook for subsequent 3 days (During 15th February- 17th February, 2025)

❖ **Isolated to scattered rainfall/snowfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand and Arunachal Pradesh.

❖ **Isolated to scattered rainfall** likely over 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

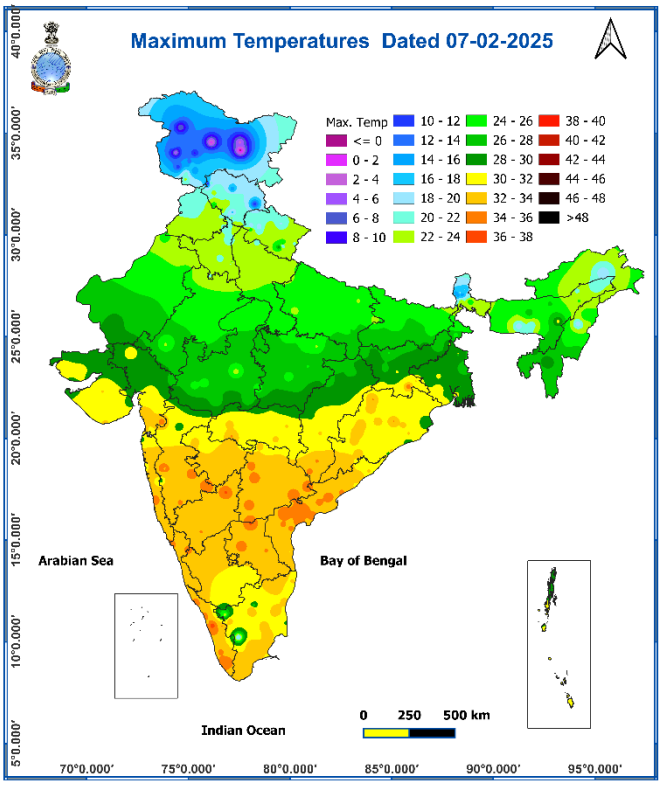


Fig. 2: Departure of Maximum Temperatures

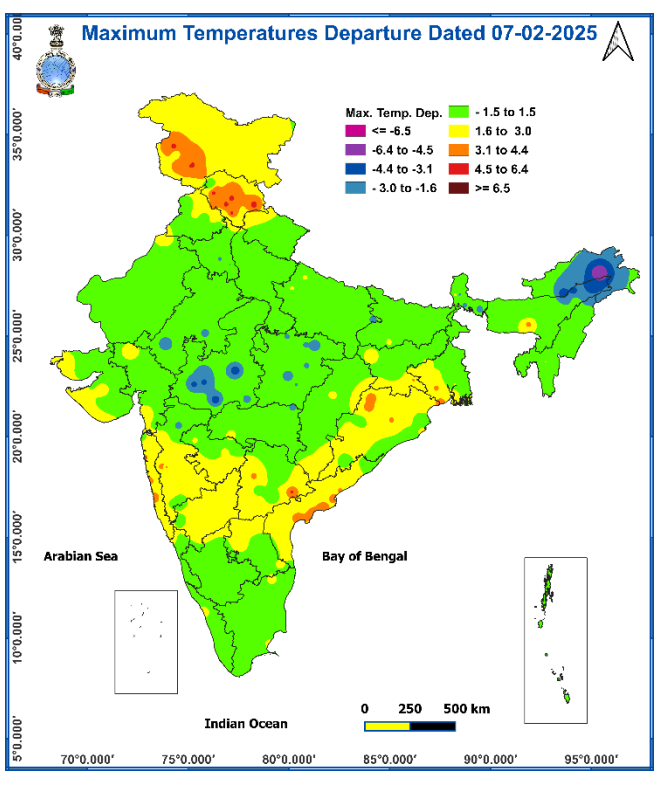


Fig. 3: Minimum Temperatures

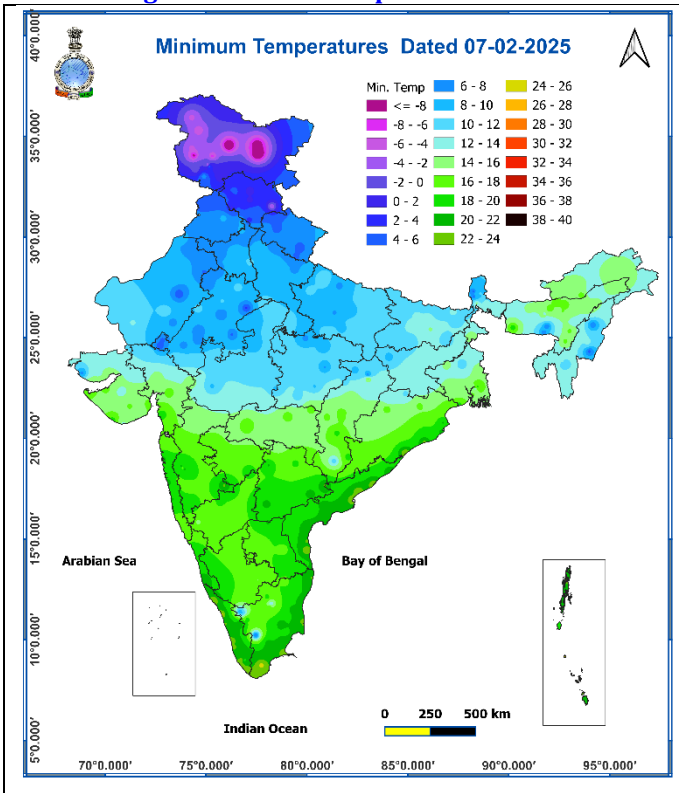
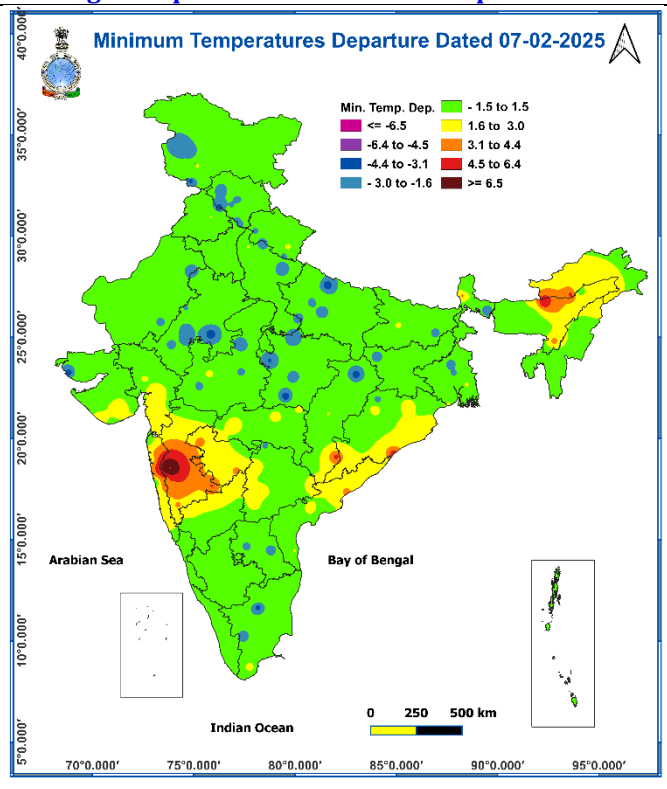


Fig. 4: Departure of Minimum Temperatures



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Impact expected due to dense fog in the night /morning hours over Odisha:

❖ Transport and Aviation:

- May affect some airports, highways and railway routes in the areas of met- sub-division.
  - Difficult driving conditions with slower journey times.
- Unless taken precautionary measures, it may lead to some road traffic collisions.

❖ Power Sector:

- Chances of Tripping of Power lines in the very dense fog routes.

❖ Human Health:

- Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.
- Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
- Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

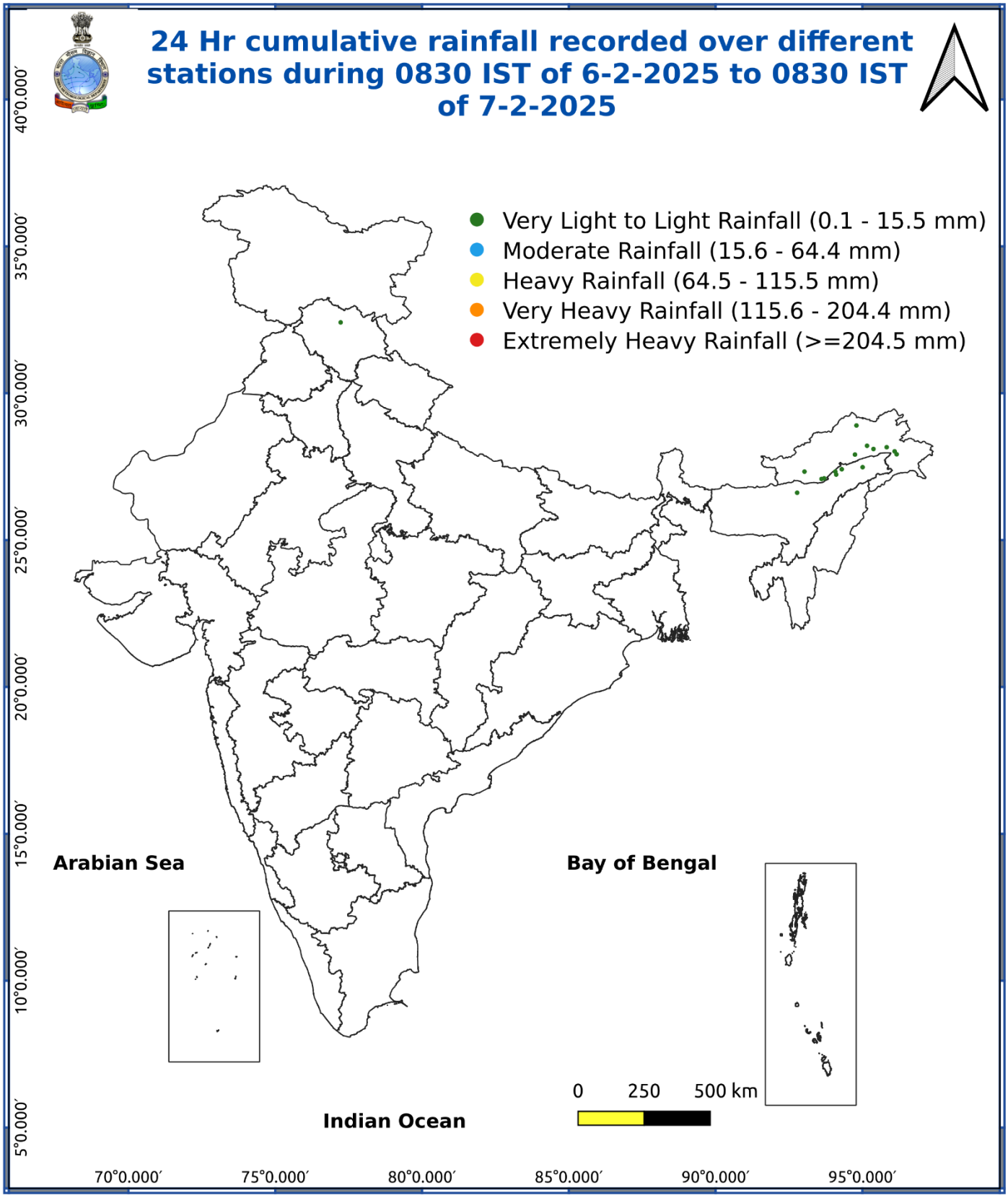
❖ Transport and Aviation:

- Be careful while driving or outing through any transport.
- Use fog lights during driving.
- Be in touch with airlines, railways and state transport for schedule of your journey.

❖ Power Sector:

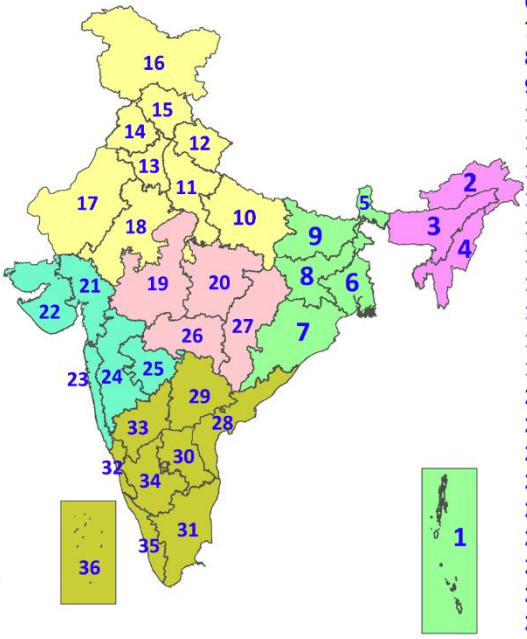
- To keep ready Maintenance Team.
- Human Health: To avoid outing until unless emergency and to cover the face.

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. 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 Rain
Very Heavy Rain
Extremely Heavy Rain
Thunder & Lightning
Hailstorm
Dust Raising Winds

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

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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 ≥40° C for plains and ≥30° 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 ≥6.5° C **(b). Based on Actual maximum temperature** **Heat Wave:** When actual maximum temperature ≥45°C. **Severe Heat Wave:** When actual maximum temperature ≥47°C **(c). Criteria for heat wave for coastal stations** When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°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 °C.
Cold Wave	**When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C **(b) Based on actual Minimum Temperature (for Plains only)** **Cold Wave :** When Minimum Temperature is ≤ 4.0 °C **Severe Cold Wave:** When Minimum Temperature is ≤ 2.0 °C **(c) For Coastal Stations** When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
Cold Day	**When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C
Fog	**Phenomenon of small droplets suspended in air and the horizontal visibility < 1km** **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 ≤4°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)

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