राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

2025-12-16
Time of Issue: 13:30:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings

- Light rainfall/snowfall at few/isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18th -22nd and over Himachal Pradesh and Punjab on 20th &21st and Uttarakhand on 21st December.
- **Isolated Hailstorm very likely over** Meghalaya on 16th December.
- **Thunderstorm and lightning with isolated heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal on 16th, **with gusty winds with speed reaching upto 30-40 kmph** very likely at isolated places over Nicobar Islands and Tamil Nadu, Puducherry & Karaikal on 16th - 17th December.

Temperature Conditions during past 24 hours till 0830 hours IST of today:

- Minimum temperatures were below 5°C at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Himachal Pradesh and Uttarakhand in the range of 5°-10°C at many places over Punjab, Haryana Chandigarh & Delhi, Rajasthan, Madhya Pradesh; over few places over Uttar Pradesh, Vidarbha, Marathawada, Odisha; over isolated places over Chhattisgarh, Assam & Meghalaya, Manipur, Telangana and Kerala & Mahe.
- Minimum Temperatures show rising tendency during past 24 hours by 1-3°C at few places over Uttarakhand, Himachal Pradesh, Punjab, Saurashtra & Kutch, Karnataka, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal; falling tendency by1-2°C oversome parts of Madhya Pradesh, West Uttar Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan, Odisha, Assam and Kerala & Mahe

Forecast of minimum temperatures:

- No significant change in minimum temperature very likely over Northwest India during next 3 days and gradual rise by 2-3°C thereafter during subsequent 4 days.
- No significant change in minimum temperature very likely over Gujarat state during next 24 hours and gradual rise by 2-3°C during subsequent 3 days and no significant change thereafter.
- No significant change in minimum temperature over remaining parts of the country during next 7days.

Dense Fog & Cold wave Warnings:

- **Dense fog conditions** very likely to prevail during early hours/morning hours in isolated pockets of Northeast India during 17th-21st, Punjab during 17th -20th; Himachal Pradesh during 17th -19th; Uttarakhand, West Madhya Pradesh and Odisha on 17th & 18th; Haryana & Chandigarh during 18th -20th December.
- **Dense fog conditions** very likely to prevail during early hours/morning hours in isolated pockets of Uttar Pradesh during 17th - 20th and Madhya Pradesh during 17th -19th with **very dense fog at a few places** over Uttar Pradesh on 17th and at isolated places over Uttar Pradesh on 18th; over East Madhya Pradesh on 17th & 18th December.
- **Cold wave conditions** very likely to prevailed at isolated places over Telangana, North Interior Karnataka, West Madhya Pradesh on 17th & 18th December**.**

Fisherman Warning:

- Fishermen are advised not to venture into the following areas during 16th December to 21st December:
- **Bay of Bengal:** Over Gulf of Mannar and adjoining Comorin area during16th to 20th December.

Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Dry** over rest of the country.

❖ **Fog Condition Observed (at 0830 hours of today): Very dense to dense fog (visibility <50 m)** prevailed at a few places of Uttar Pradesh and isolated pockets of Punjab and Odisha in the morning hours**; dense fog (visibility 50-199 m):** reported in isolated pockets of Odisha, Himachal Pradesh, Uttarakhand, West Rajasthan, East Madhya Pradesh and Meghalaya.

Visibility reported (?200 m): Himachal Pradesh: Bilaspur 50 m, **Uttarakhand:** Pantnagar And Khatima 50, **Odisha:** Rourkela 25, Koraput 120, Phulbani 150 **Punjab:** Faridkot 20, Bathinda AMFU 40, **West Uttar Pradesh:** AMS Aligarh, Bareilly(IAF), Agra(IAF)-00 Each, Agra(Taj)-20, Aligarh-25, Bareilly-30, Shahjahanpur-40, AMS Moradabad-50, **East Uttar Pradesh:** AMS Ayodhya, Gorakhpur(IAF), Kanpur(IAF) & Prayagraj Iaf-00, Fursatganj-20, Kanpur(City)-40, Fatehgarh, Lucknow(AP), Hardoi, Varanasi(AP)-50, Basti-70, Ams Shrawasti-100, Sulltanpur-150, **West Rajasthan:** Sri Ganganagar 50, Bikaner 100, **East Madhya Pradesh:** Khajuraho(100), **Meghalaya:** Barapani(50).

❖ **Minimum Temperature Departures (as on 16-12-2025): Minimum Temperatures** were **markedly below normal (less than-5.1°C)**at isolated places over West Madhya Pradesh **appreciably below normal (-5.0°C to -3.1°C)** at isolated places over North Interior Karnataka and Assam & Meghalaya; **below normal (-1.6°C to -3.0°C)** at many places over Maharashtra, Kerala & Mahe; at few places over Telangana, Madhya Pradesh, Chhattisgarh, Odisha and Gangetic West Bengal; at isolated places over Bihar and Uttar Pradesh. **The lowest minimum temperature of 4.8 °C is reported at Adampur (Punjab) and Bhopal (West Madhya Pradesh) over the plains of India.**

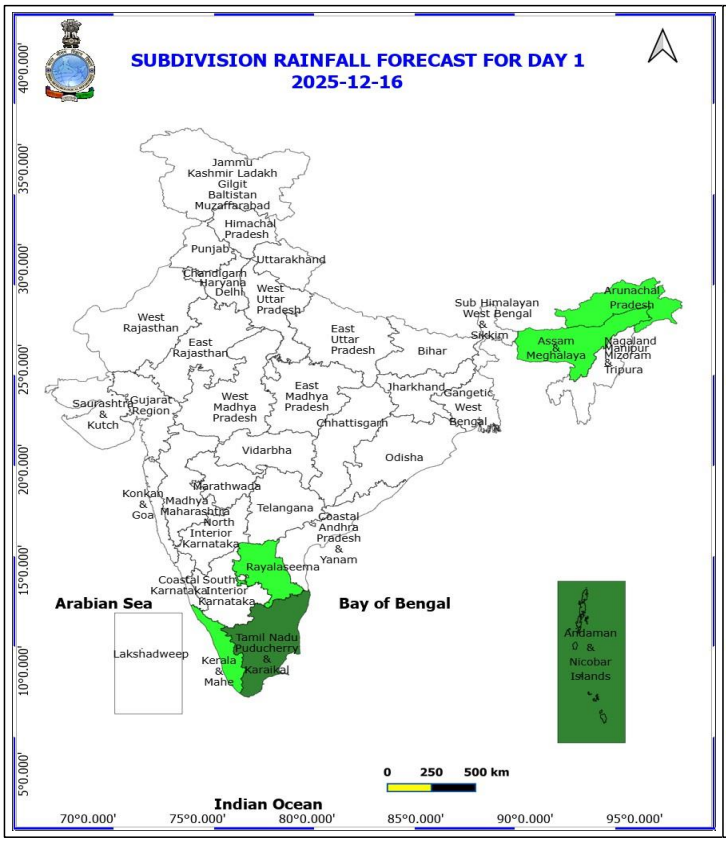
❖ **Maximum Temperature Departures (as on 15-12-2025): The highest maximum temperature** of 35.2°C was reported at KOTTAYAM & KANNUR (KERALA).

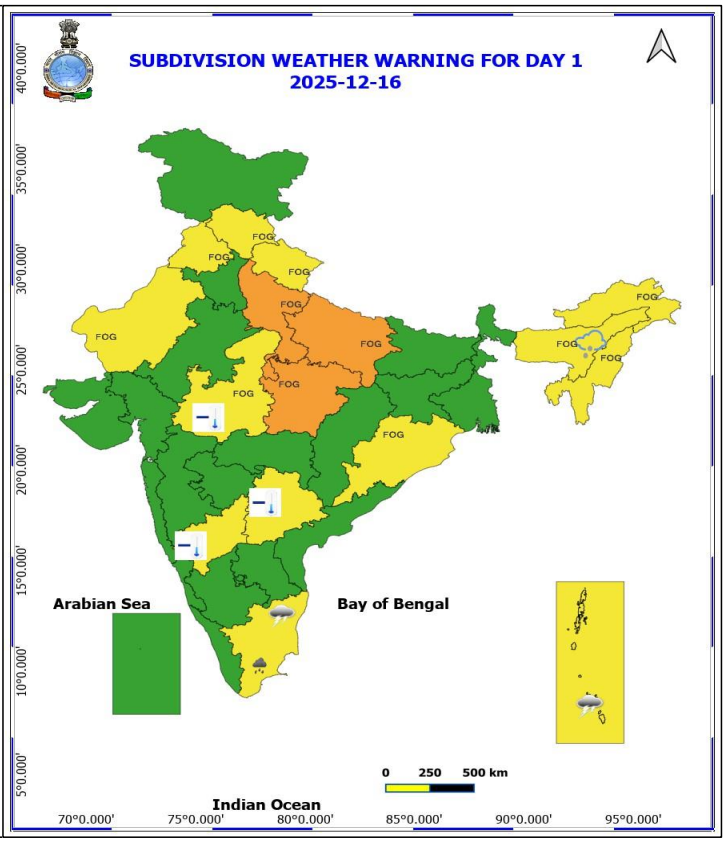
Meteorological Analysis (Based on 0830 hours IST)

- The **Western Disturbance** as an **upper air cyclonic circulation** over north Pakistan and neighbourhood now lies over north Pakistan and adjoining Jammu at 3.1 km above mean sea level with a **trough** aloft in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 72°E to the north of Lat. 32°N.
- The another **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 65°E to the north of Lat. 32°N has merged with the above
- Western Disturbance.
  Subtropical westerly Jet Stream with core winds of the order upto 120 knots at 12.6 km above mean sea
- level continues to prevail over North India.
  The **upper air cyclonic circulation** over west Assam and neighbourhood at 3.1 km now lies over south
- Assam and neighbourhood at 0.9 km above mean sea level.
- A fresh feeble **Western Disturbance** is likely to affect western Himalayan region from the night of 17th December 2025.
- The **upper air cyclonic circulation** over south Tamil Nadu and neighbourhood at 3.1 km above mean sea level has become less marked.

Weather Outlook for subsequent 3 days

- Isolated to Scattered rainfall activity over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Hiamchal Pradesh, Kerala, Tamil Nadu and Islands.





16 December (Day 1)

❖ **Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.

❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Assam & Meghalaya.

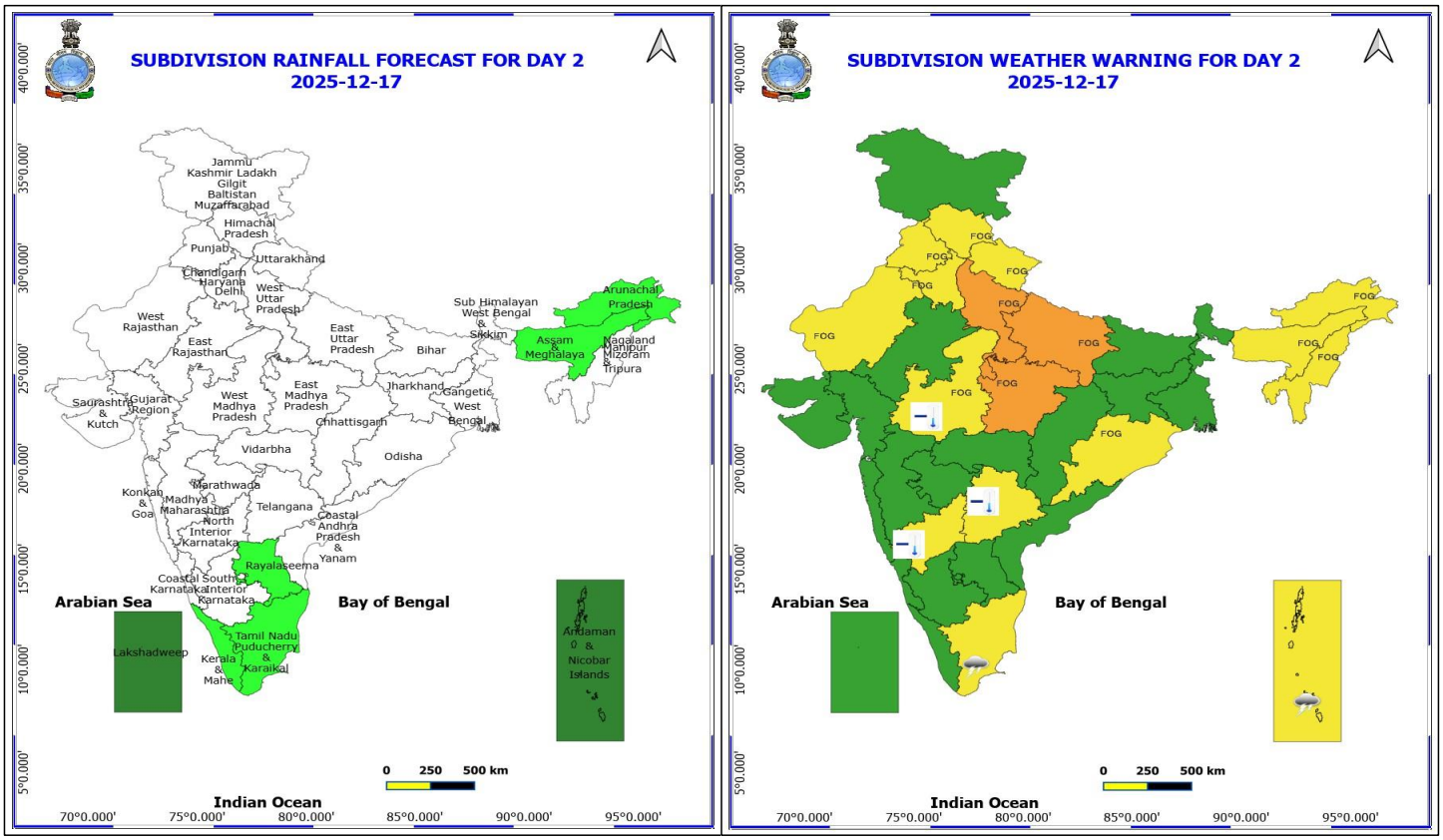
❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.

❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.

❖ **Cold wave conditions** very likely at isolated places over North Interior Karnataka, Telangana and West Madhya Pradesh.

❖ **Dense to very Dense fog very likely at isolated pockets** over Uttar Pradesh, East Madhya Pradesh. **Dense Fog** very likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya, Himachal Pradesh, west Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Uttarakhand and West Rajasthan.

❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail over Gulf of Mannar & adjoining Comorin area.



17 December (Day 2)

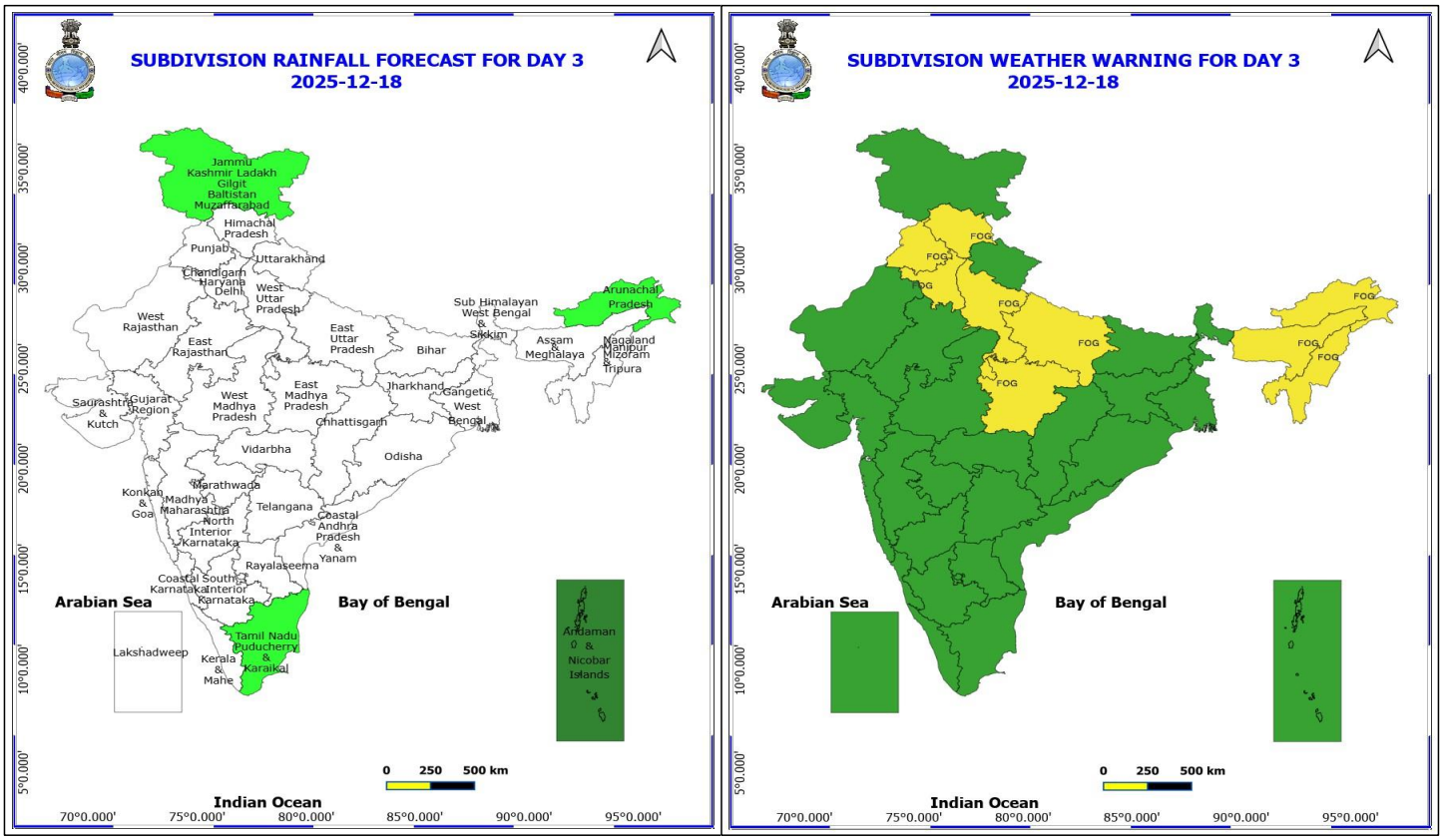
❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.

❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.

❖ **Cold wave conditions** very likely at isolated places over North Interior Karnataka, Telangana and West Madhya Pradesh.

❖ **Dense to very Dense fog very likely at isolated pockets** over Uttar Pradesh, East Madhya Pradesh.**Dense Fog** very likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya, Haryana, Chandigarh & Delhi, Himachal Pradesh, west Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Uttarakhand and West Rajasthan.

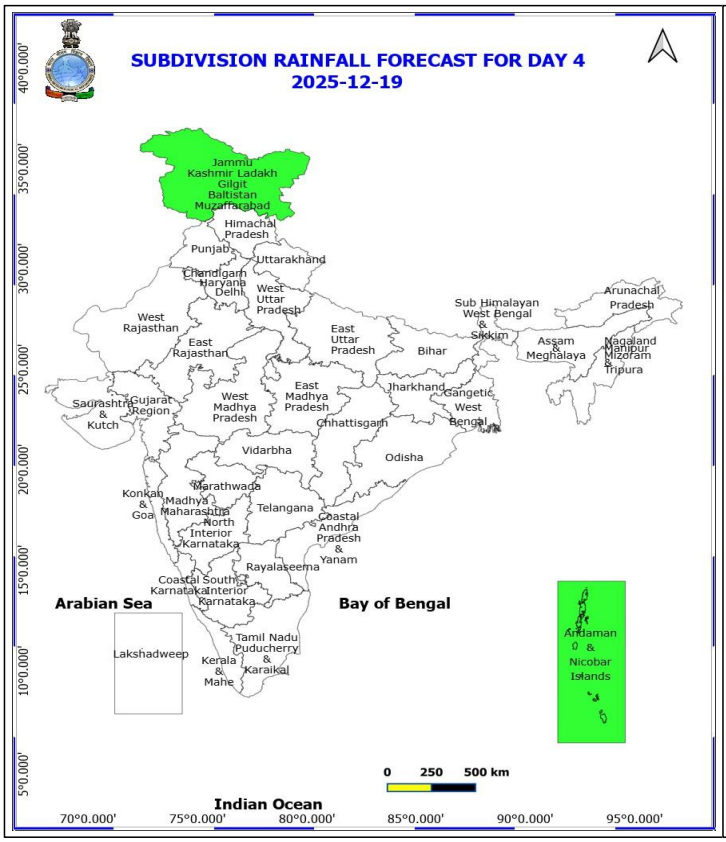
❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail over Gulf of Mannar & adjoining Comorin area.

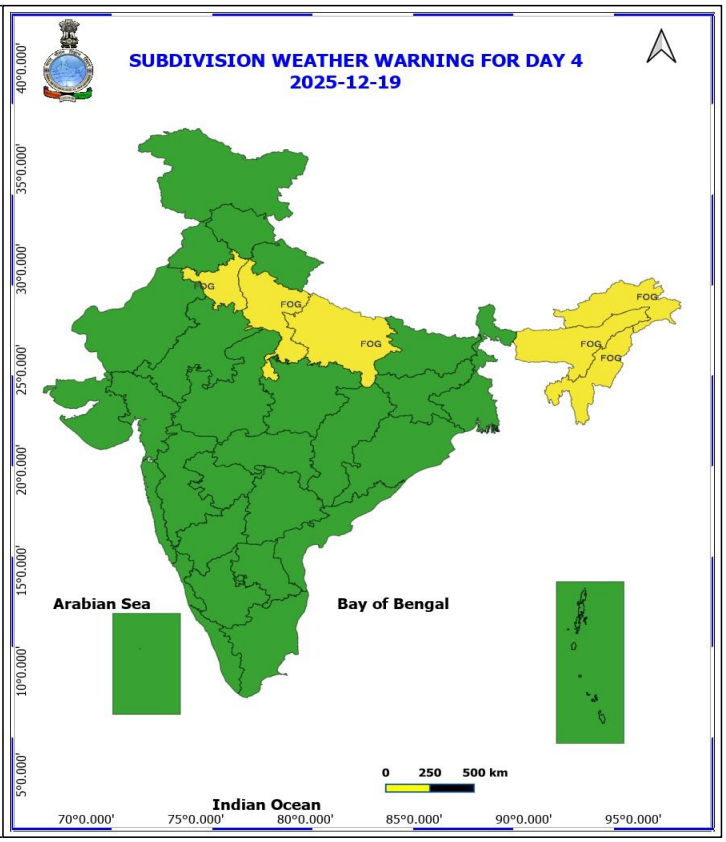


18 December (Day 3)

❖ **Dense Fog** very likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya, East Madhya Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura, Punjab and Uttar Pradesh.

❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail over Gulf of Mannar & adjoining Comorin area.

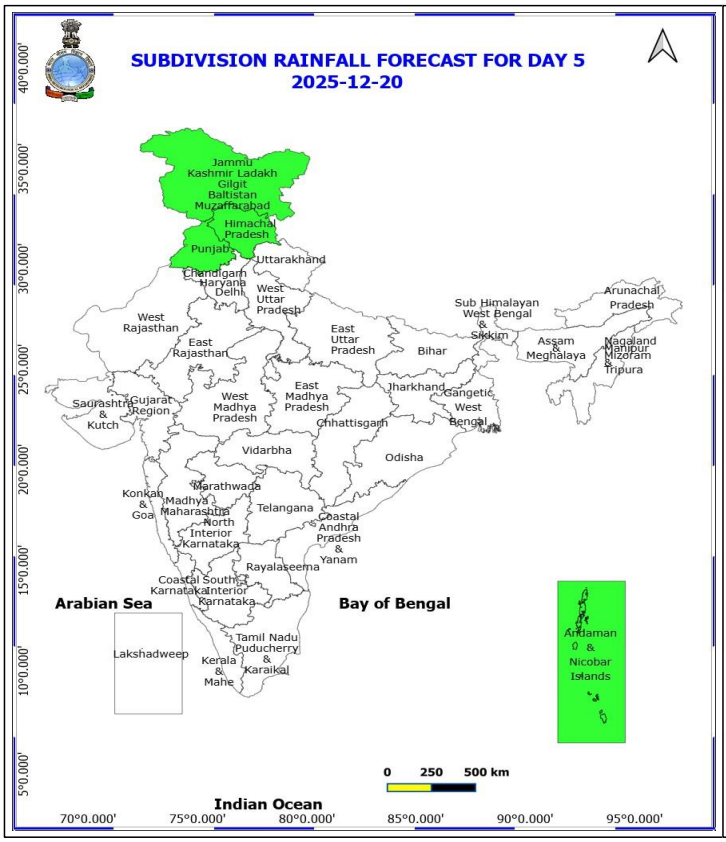


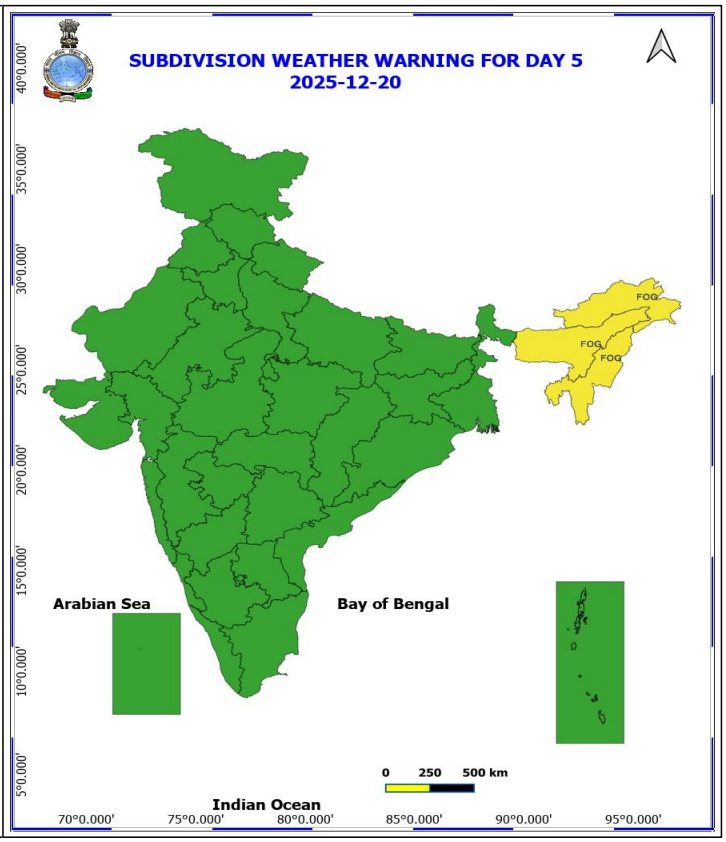


19 December (Day 4)

❖ **Dense Fog** likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura and Uttar Pradesh.

❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail over Gulf of Mannar & adjoining Comorin area.

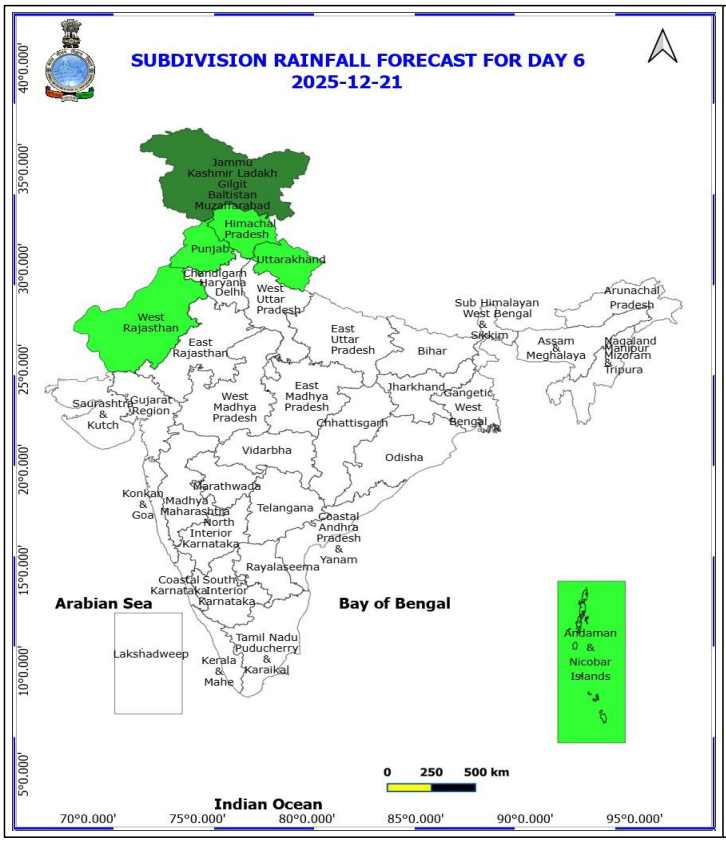


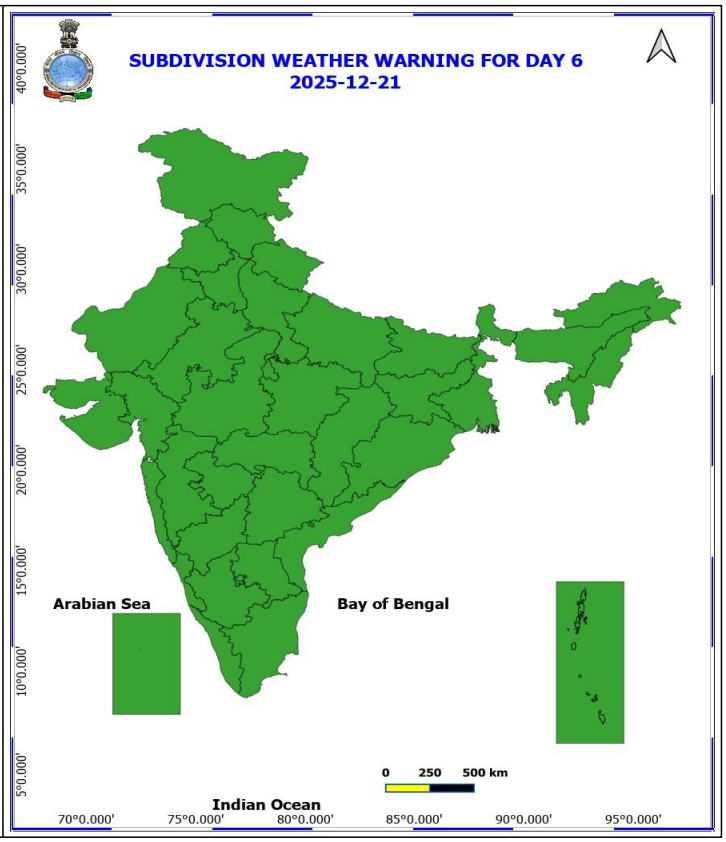


20 December (Day 5)

❖ **Dense Fog** likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.

No Warning

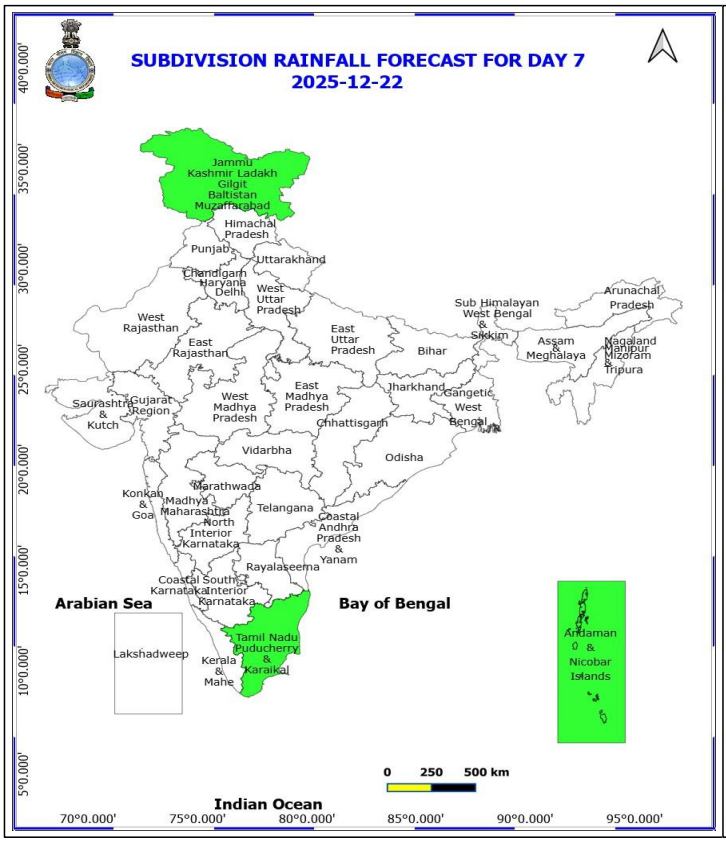


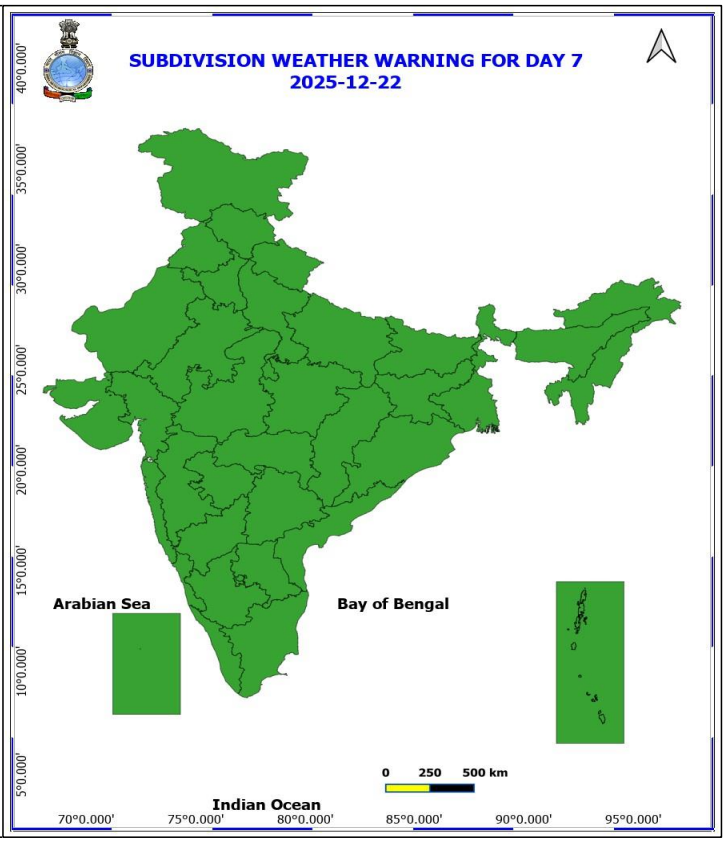


21 December (Day 6)

No Warning

No Fishermen Warning





22 December (Day 7)

No Warning

No Fishermen Warning

Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	22-Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
4	N. M. M. & T.	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	DRY	DRY	DRY	DRY	DRY	ISOL	DRY
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	ISOL	ISOL	ISOL	SCT	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	ISOL	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	SCT	ISOL	ISOL	DRY	DRY	DRY	ISOL
32	COSTAL KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
35	KERALA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
36	LAKSHDWEEP	DRY	SCT	DRY	DRY	DRY	DRY	DRY

Legend	Category	%Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

*Red color warning does not mean "Red Alert" Red color 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)

Fig. 1: Maximum Temperatures Dated 2025-12-15

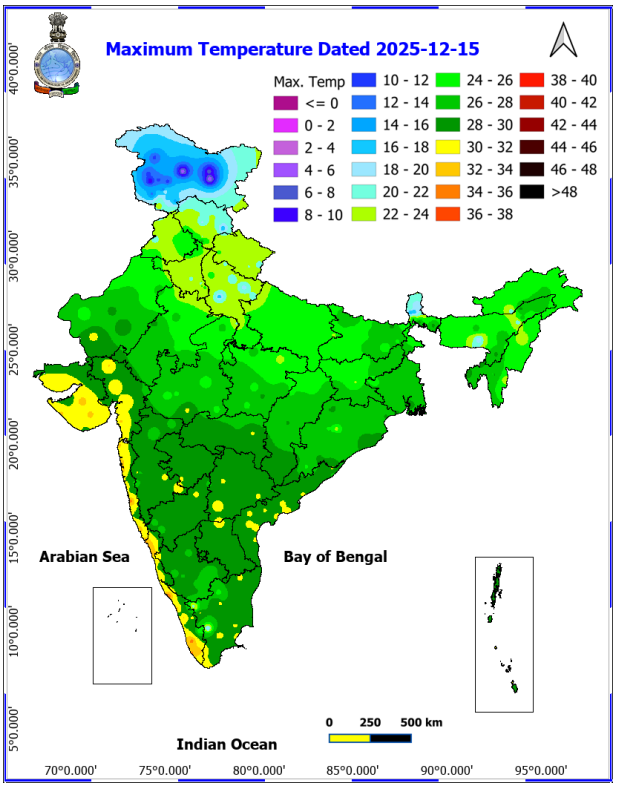


Fig. 2: Departure of Maximum Temp. Dated 2025-12-15

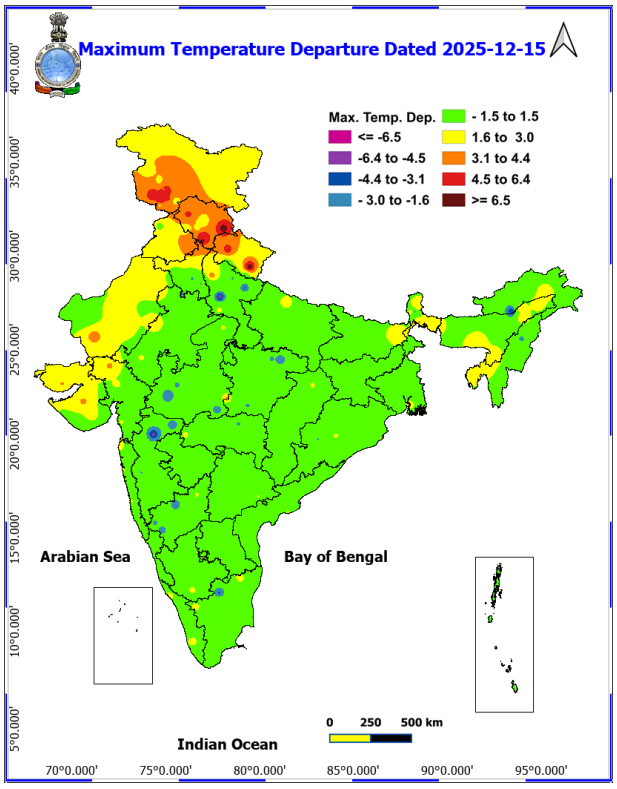


Fig. 3: Minimum Temperatures Dated 2025-12-16

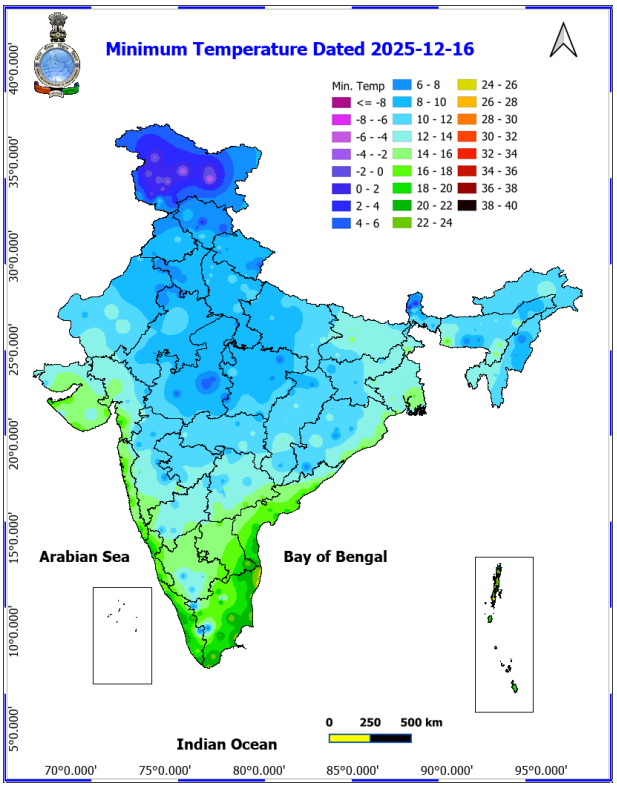
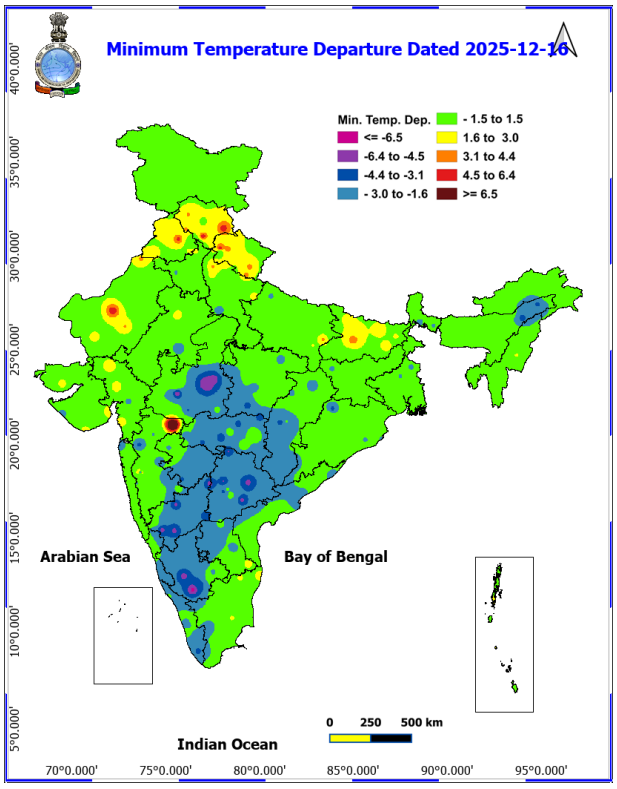
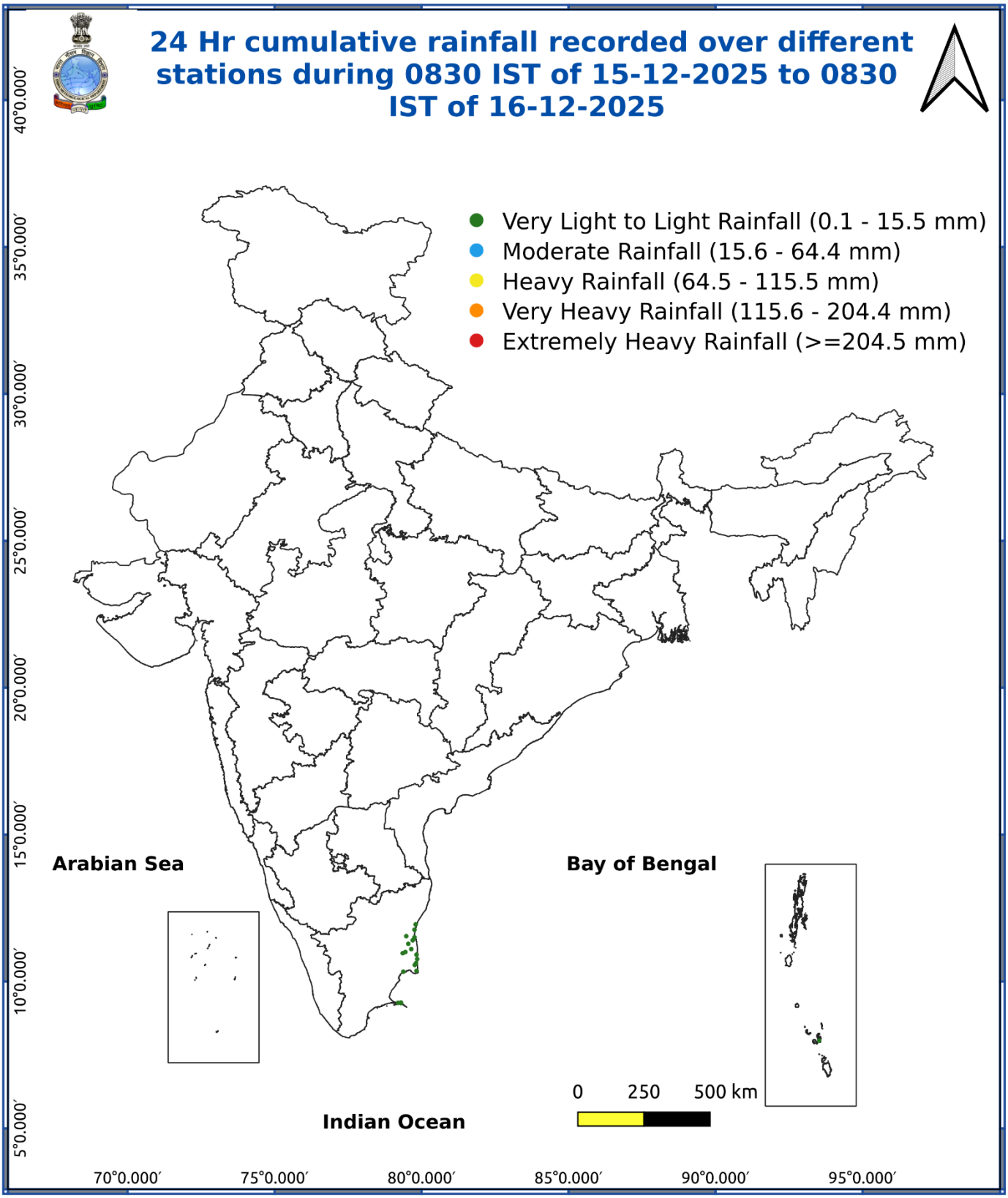


Fig. 4: Departure of Minimum Temp. Dated 2025-12-16



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 15-12-2025 to 0830 IST of 16-12-2025



Impact expected due to dense/very dense fog in the early hours/morning hours:likely to prevail during early hours/morning hours in isolated pockets ofNortheast India during 17th-21st, Punjab, Uttar Pradesh during 17th -20th; Himachal Pradesh, Madhya Pradesh during 17th -19th; Uttarakhand, West Madhya Pradesh and Odisha on 17th & 18th; Haryana & Chandigarh during 18th -20th December.

❖**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.

Impact expected due to Cold Wave/severe cold wave conditions likely to prevail at isolated places over Telangana, North Interior Karnataka, West Madhya Pradesh on 17th & 18th December**.**

- An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.
- Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.
- **Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.**

Action suggested:

- Wear several layers of loose fitting, light weight; warm woollen clothing.
- Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts.

Wear several layers of loose fitting, light weight; warm woollen clothing rather than one layer of heavy cloth.
- Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- Avoid or limit outdoor activities.
- Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.
- Warm the affected area of the body slowly with lukewarm water; do not rub the skin vigorously.
- If the affected skin area turns black, immediately consult a doctor.
- Maintain ventilation while using Heaters to avoid inhaling toxic fumes.
- Take safety measures while using electrical and gas heating devices.
- Extreme care needed for vulnerable people.
- Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- Protect livestock from cold weather.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Cold Waves / Low Temperatures

- In **West Madhya Pradesh**, **North Interior Karnataka** and **Telangana,** apply light and frequent irrigation to the standing crops in the evening to protect the crops from low temperature stress. Use mulching and cover vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.

Livestock / Poultry

- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

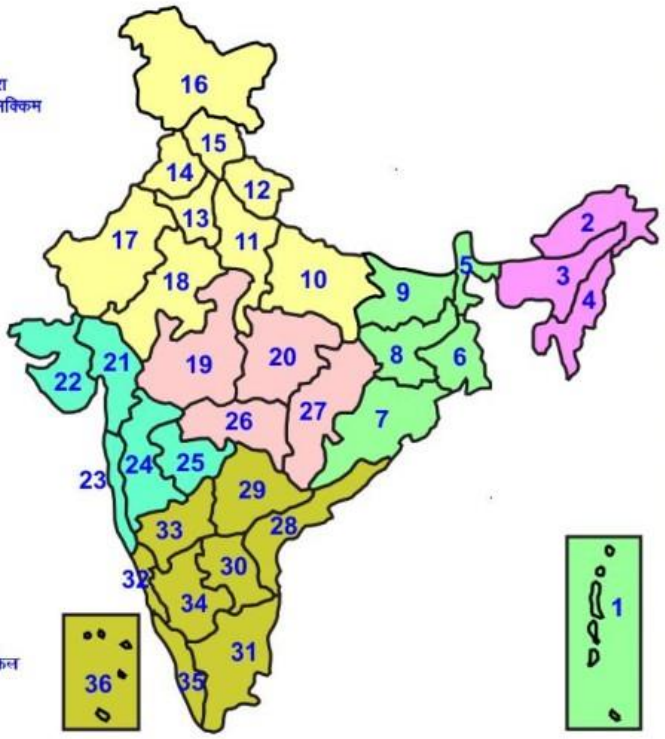
Legends & abbreviations:

Region wise classification of meteorological Sub-Divisions:

- **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
- **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

LEGENDS

1 अंडमान और निकोबार द्वीप समुह
2 अरुणाचल प्रदेश
3 असम और मेघालय
4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
5 उप हिमालय पश्चिम बंगाल एंवम् सिक्किम
6 पश्चिम गांगेय बंगाल
7 ओडिसा
8 झारखडं
9 बिहार
10 पूर्वी उत्तर प्रदेश
11 पश्चिम उत्तर प्रदेश
12 उत्तराखंड
13 हरियाणा चंडिगढ़ एंवम् दिल्ली
14 पंजाब
15 हिमाचल प्रदेश
16 जम्मू एवंम कश्मीर एवंम लद्दाख
17 पश्चिम राजस्थान
18 पूर्वी राजस्थान
19 पश्चिम मध्य प्रदेश
20 पूर्वी मध्य प्रदेश
21 गुजरात क्षेत्र
22 सौराष्ट्र एंवम् कच्छ
23 कोंकण एंवम् गोवा
24 मध्य महाराष्ट्र
25 मराठावाडा
26 विदर्भ
27 छत्तीसगढ़
28 तटीय आंध्र प्रदेश एवं यनम
29 तेलंगाना
30 रायलसीमा
31 तमिलनाडु,पुदुचेरी एवंम कराईकल
32 तटिय कर्नाटक
33 आंतरिक उत्तरी कर्नाटक
34 आंतरिक दक्षिणी कर्नाटक
35 केरल एवंम 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. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajsthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
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 Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)

Subdivision Colour

- NO WARNING
- WATCH (BE UPDATED)
- 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

Heavy Rain
Very Heavy Rain
Extremely Heavy Rain
Heavy Snow
Thunderstorm & Lightning
Hailstrom
Dust Strom
Dust Raising Winds
Strong surface winds
Heat Wave
Hot Day
Warm Night
Cold Wave
Cold Day
Ground Frost
Fog
Hot & Humid

*Red color warning does not mean "Red Alert" Red color 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

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

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)