

2025-12-11

Time of Issue: 13:14:00 hours IST  
(Mid-Day)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Systems, Forecast and Warnings :

- Light rainfall/snowfall at isolated places over Western Himalayan Region Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad from 13<sup>th</sup>-17<sup>th</sup> and over Himachal Pradesh and Uttarakhand on 14<sup>th</sup> December.
- Light to moderate rainfall with **thunderstorm and lightning** very likely at a few/many places likely to prevail over Andaman & Nicobar Islands during 11<sup>th</sup> - 14<sup>th</sup> December.

#### Forecast of minimum temperatures:

- No significant change in minimum temperature very likely over plains of Northwest India during next 2 days, rise by 2-4°C during subsequent 4 days and no significant change thereafter.
- No significant change in minimum temperature very likely over Central India for next 24 hours, rise by 2-4°C for subsequent 4 days and no significant change thereafter.
- No significant change in minimum temperature very likely over Maharashtra during next 2 days, 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 7 days.

#### Dense Fog & Cold wave warning Warnings:

- **Cold wave conditions** very likely to prevail at isolated places over Madhya Maharashtra, Marathwada, West Madhya Pradesh, Vidarbha, Chhattisgarh and Odisha on 12<sup>th</sup> & 13<sup>th</sup>; over Telangana and North Interior Karnataka during 12<sup>th</sup> -14<sup>th</sup> December.
- **Dense fog conditions** very likely to prevail during morning hours in isolated pockets of Nagaland, Manipur, Mizoram & Tripura, Haryana, Chandigarh & Delhi during 12<sup>th</sup> -16<sup>th</sup>; Assam & Meghalaya and Himachal Pradesh during 12<sup>th</sup> -14<sup>th</sup>; over Odisha on 12<sup>th</sup> and 13<sup>th</sup> and Punjab during 13<sup>th</sup> -16<sup>th</sup> December.
- **Dense fog conditions** very likely to prevail during morning hours in isolated pockets of West Uttar Pradesh on 12<sup>th</sup> & 13<sup>th</sup> and over East Uttar Pradesh during 12<sup>th</sup> -14<sup>th</sup> with **very dense fog** over Uttar Pradesh on 12<sup>th</sup> December.

\*Red color warning does not mean "Red Alert" Red color warning means "Take Action"

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#### Main Weather Observations:

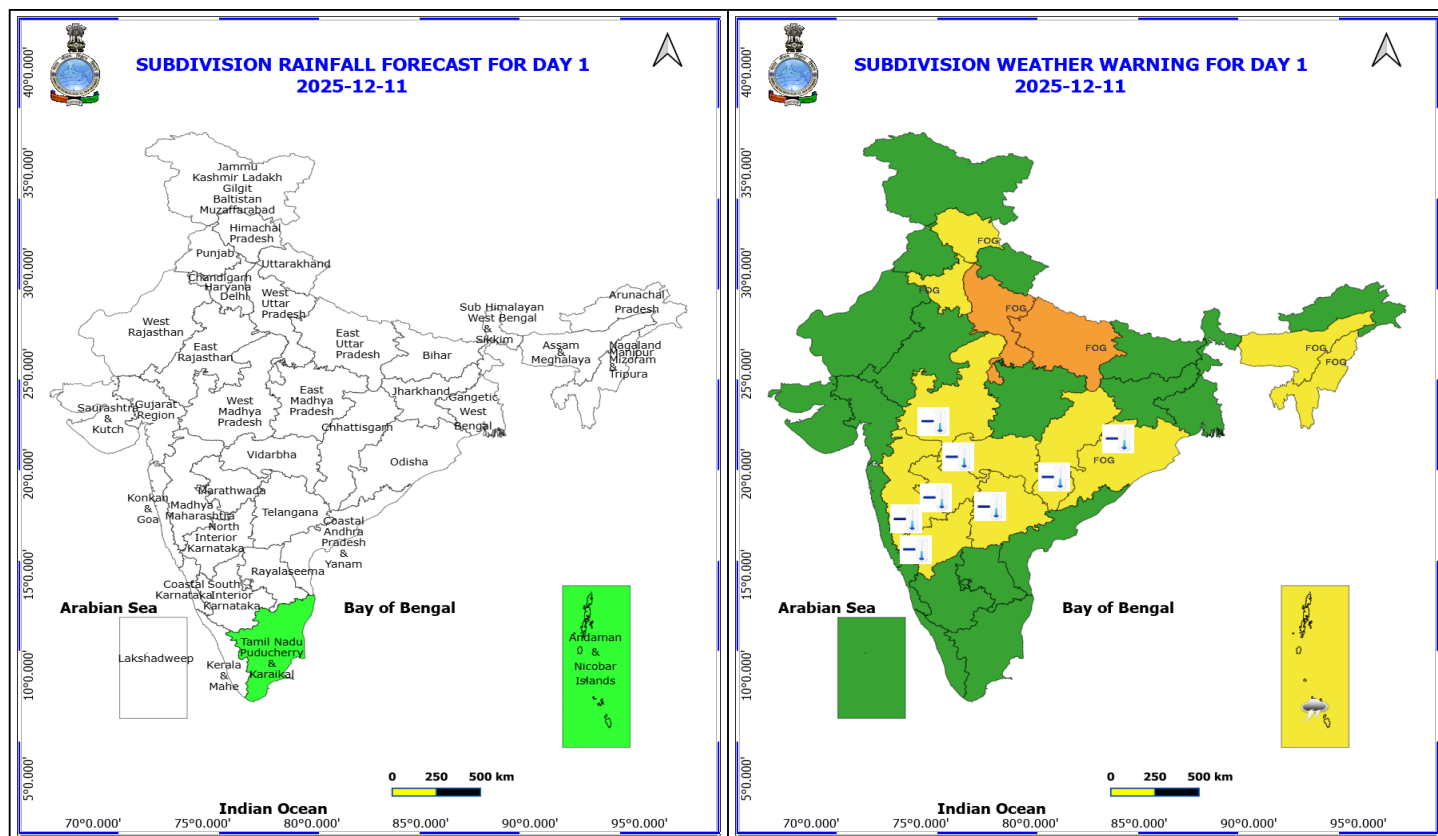
- **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at isolated places** over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **Dry** over rest of the country.
- **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Tamil Nadu, Puducherry & Karaikal**: Oothu (dist Tirunelveli) 2; Vedaranyam (dist Nagapattinam), Pamban (dist Ramanathapuram), Rameswaram (dist Ramanathapuram), Kodayakarai (dist Nagapattinam), Thangachimadam (dist Ramanathapuram), Kakkachi (dist Tirunelveli), Manjolai (dist Tirunelveli), Nalumukku (dist Tirunelveli) 1 Each.
- **Fog Condition Observed (at 0830 hours of today)**: **Dense fog conditions** reported temporarily at isolated pockets of Uttar Pradesh in the morning hours; **dense fog**: reported in isolated pockets of Odisha, Himachal Pradesh, Meghalaya and Tripura.
- **Visibility reported (at 0830 hours of today)**: **West Uttar Pradesh**: Bareilly (IAF)-0 m, Moradabad (AP) & Shahjahanpur-50m; **East Uttar Pradesh**: Gorakhpur (IAF)-00 m, Ballia & Bahraich-50m; **Meghalaya**: Barapani 50m; **Tripura**: Agartala 50m; **Himachal Pradesh**: Bilaspur 100m; Odisha: Koraput and Rourkela 100m.
- **Cold wave conditions** prevailed at a few places over West Madhya Pradesh, Chhattisgarh & Vidarbha; **at isolated places** over Punjab, Odisha, North Interior Karnataka and Telangana.
- **Cold wave conditions are prevailing since last 6 days** over West Madhya Pradesh, Vidarbha, Chhattisgarh and Odisha
- **Minimum Temperature Departures (as on 11-12-2025)**: **below normal (-1.6°C to -3.0°C)** at many places over East Uttar Pradesh, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam; few places over Interior Karnataka, Haryana Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand; at isolated places over Himachal Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over Maharashtra; few places over Madhya Pradesh, Telangana, Gangetic West Bengal, Assam & Meghalaya; over isolated places over East Rajasthan, West Uttar Pradesh, Bihar, North Interior Karnataka, markedly below normal (-5.1°C) at isolated places over Telangana, Chhattisgarh, West Madhya Pradesh and Odisha. **The lowest minimum temperature of 4.0 °C is reported at Adampur (Punjab) over the plains of India.**
- **Maximum Temperature Departures (as on 10-12-2025)**: The highest maximum temperature of 35.8°C is reported at KARWAR (KARNATAKA).

**Meteorological Analysis (Based on 0830 hours IST)**

- The **upper air cyclonic circulation** over south Bangladesh & neighbourhood now lies over Bangladesh & neighbourhood at 1.5 km above mean sea level.
- A **cyclonic circulation** lies over southwest Bay of Bengal & adjoining areas of east equatorial Indian ocean off south Sri Lanka coast at 5.8 km above mean sea level.
- The **trough in westerlies** with its axis at 5.8 km above mean sea level roughly along Long. 89°E to the north of Lat. 23°N has moved away east northeastwards.
- **Subtropical westerly Jet Stream** with core winds of the order upto 110 knots at 12.6 km above mean sea level now prevails over Northeast India.
- A **fresh feeble Western Disturbance** is likely to influence Western Himalayan Region from 13<sup>th</sup> December 2025.

**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.



## 11 December (Day 1)

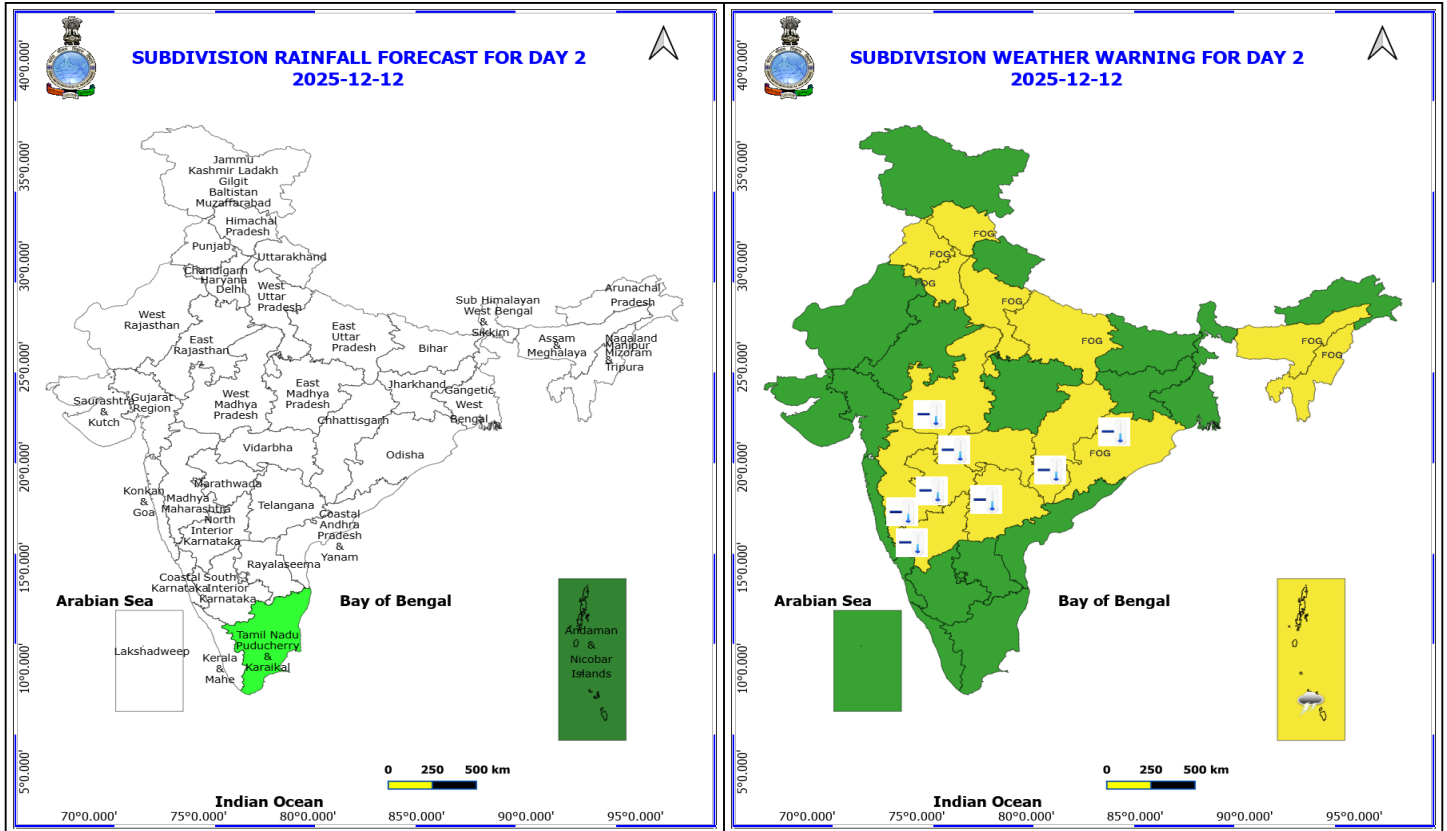
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Cold wave conditions** very likely at isolated places over Chhattisgarh, Maharashtra, North Interior Karnataka, Odisha, Telangana and West Madhya Pradesh.
- ❖ **Fog** very likely at isolated pockets over Assam & Meghalaya, Haryana, Chandigarh & Delhi, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha 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, some parts of Comorin area, along and off south Tamil Nadu coast, along and off south Sri Lanka coast and adjoining areas of southwest Bay of Bengal.

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## 12 December (Day 2)

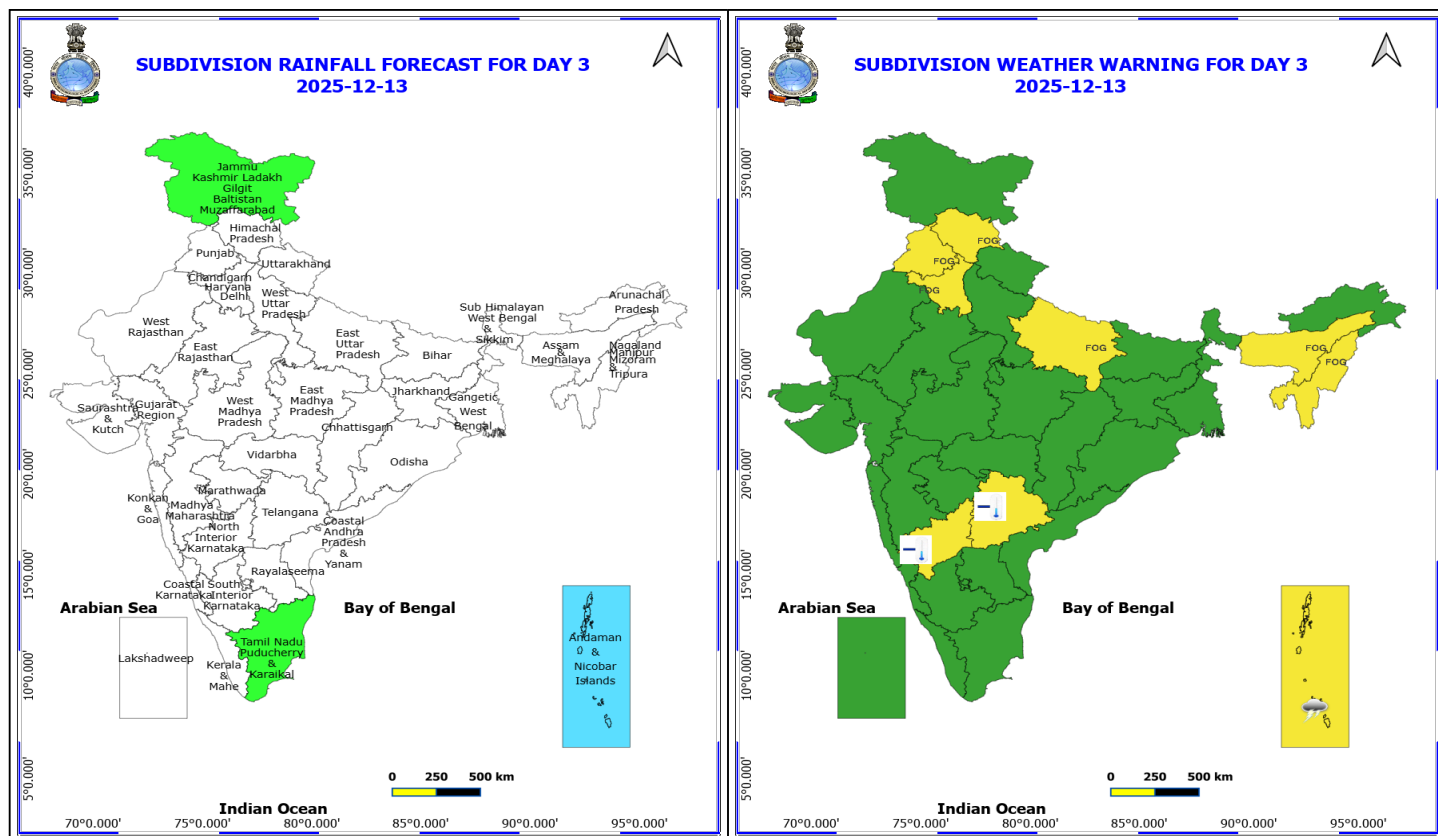
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Cold wave conditions** very likely at isolated places over Madhya Maharashtra, Marathwada, North Interior Karnataka, Odisha and Telangana.
- ❖ **Dense Fog** very likely at isolated pockets over Assam & Meghalaya, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura and Punjab.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Gulf of Mannar & adjoining, some parts of Comorin area, along and off south Tamil Nadu coast.

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### 13 December (Day 3)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Cold wave conditions** very likely at isolated places over North Interior Karnataka and Telangana.
- ❖ **Dense Fog** very likely at isolated pockets over Assam & Meghalaya, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura and Punjab.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Gulf of Mannar & adjoining, some parts of Comorin area.

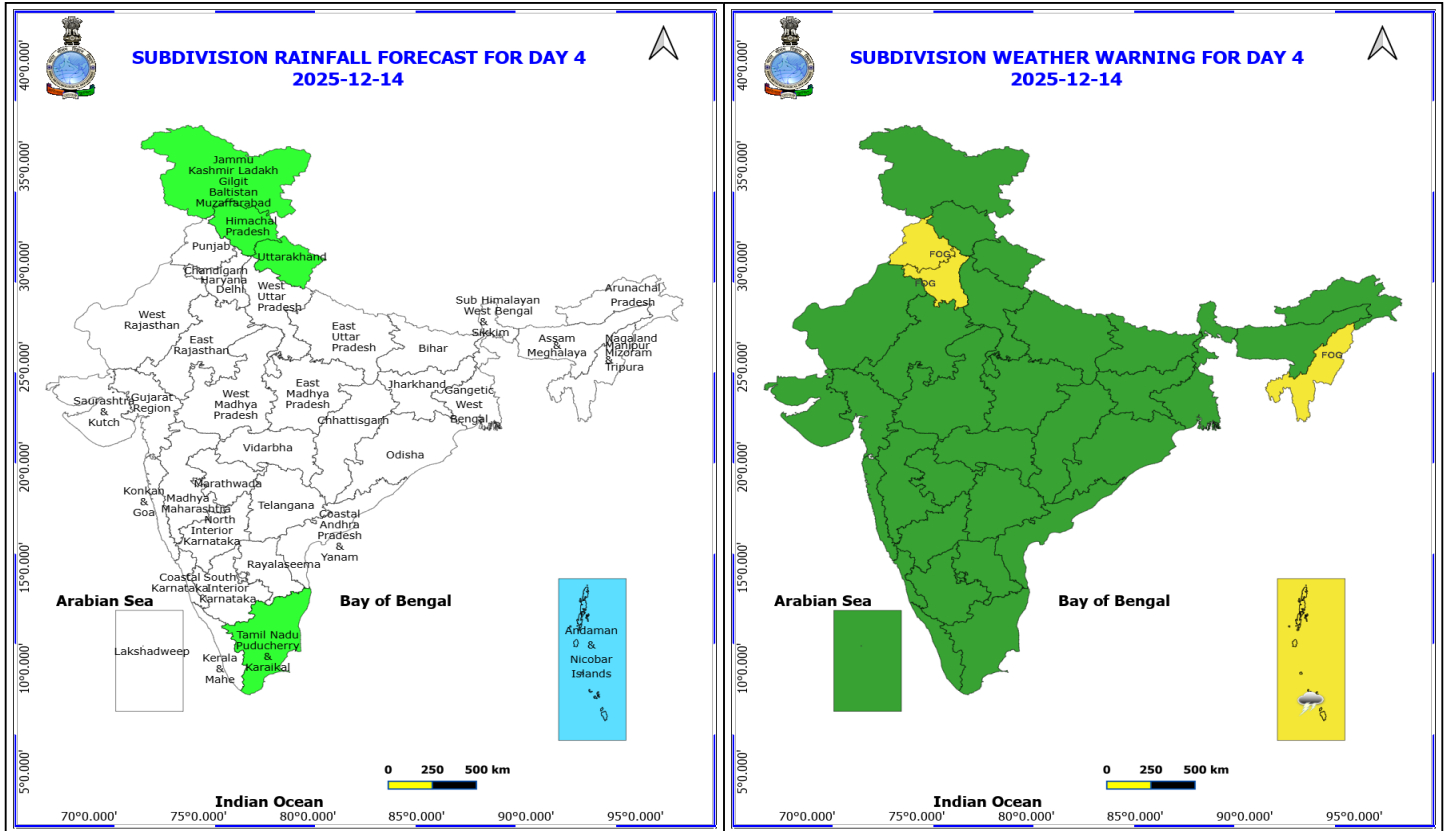
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#### 14 December (Day 4)

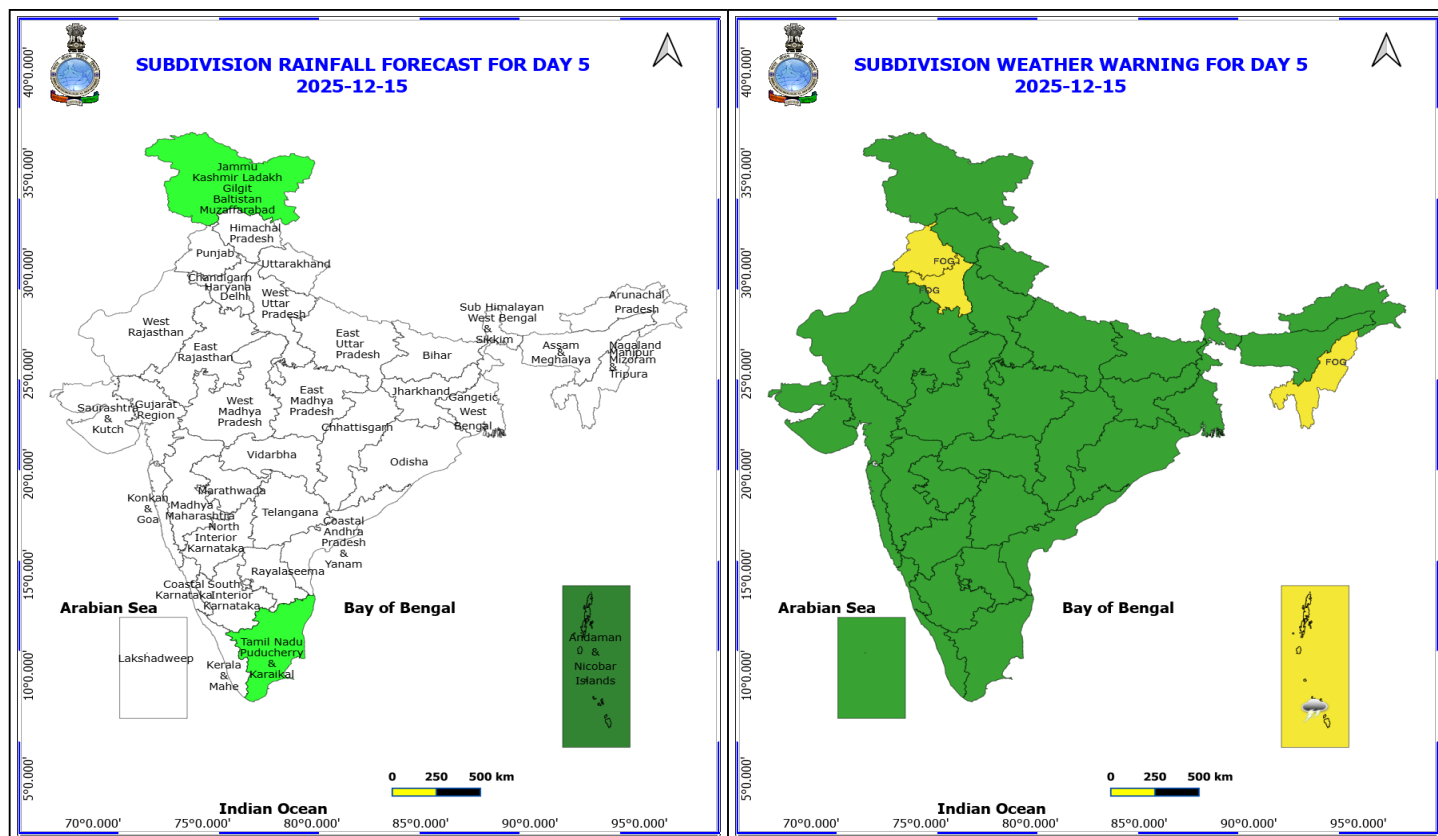
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Dense Fog** likely at isolated pockets over Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura and Punjab.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Gulf of Mannar & adjoining, some parts of Comorin area.

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### 15 December (Day 5)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Dense Fog** likely at isolated pockets over Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura and Punjab.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Gulf of Mannar & adjoining, some parts of Comorin area.

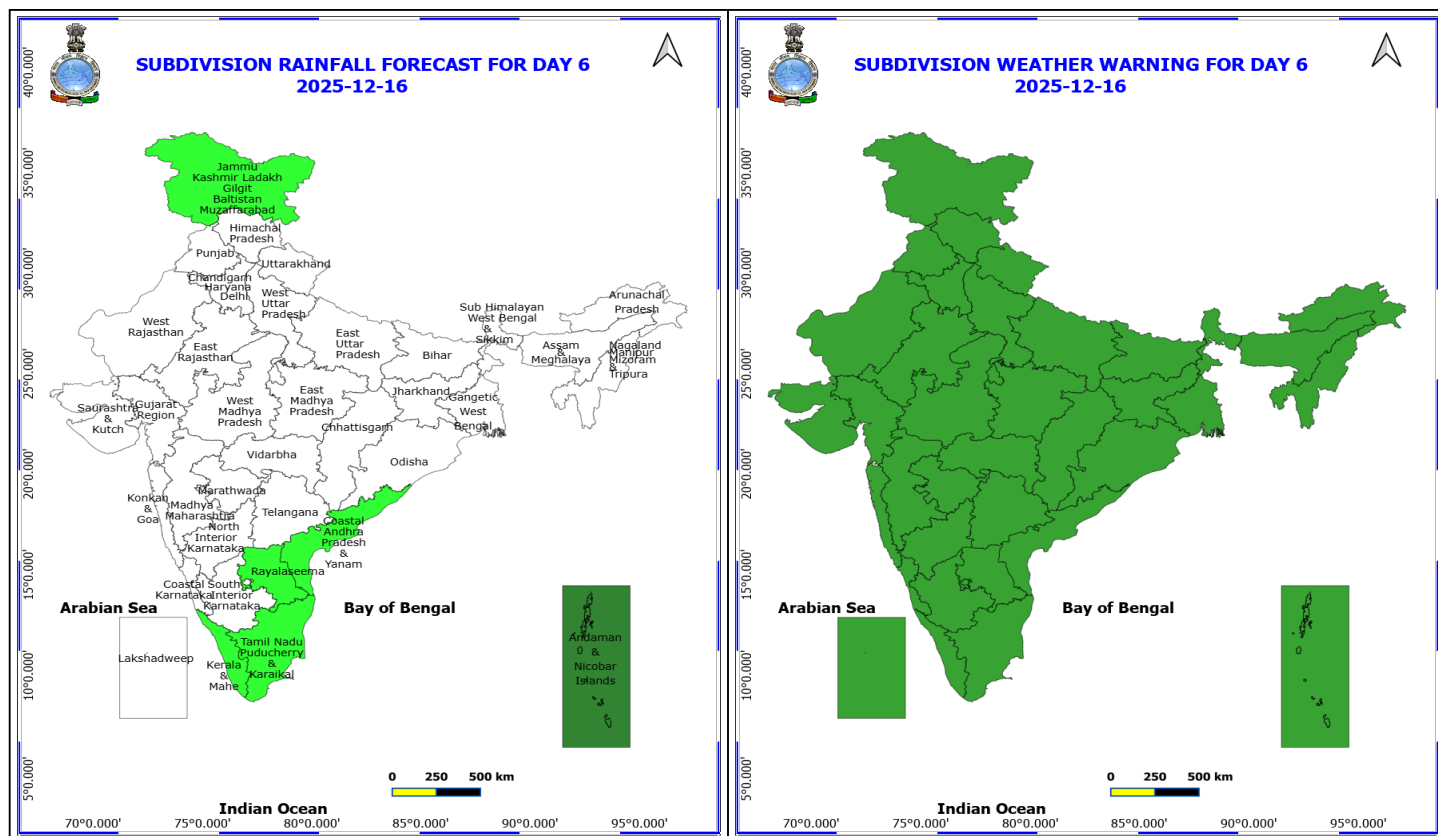
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## 16 December (Day 6)

No Warning

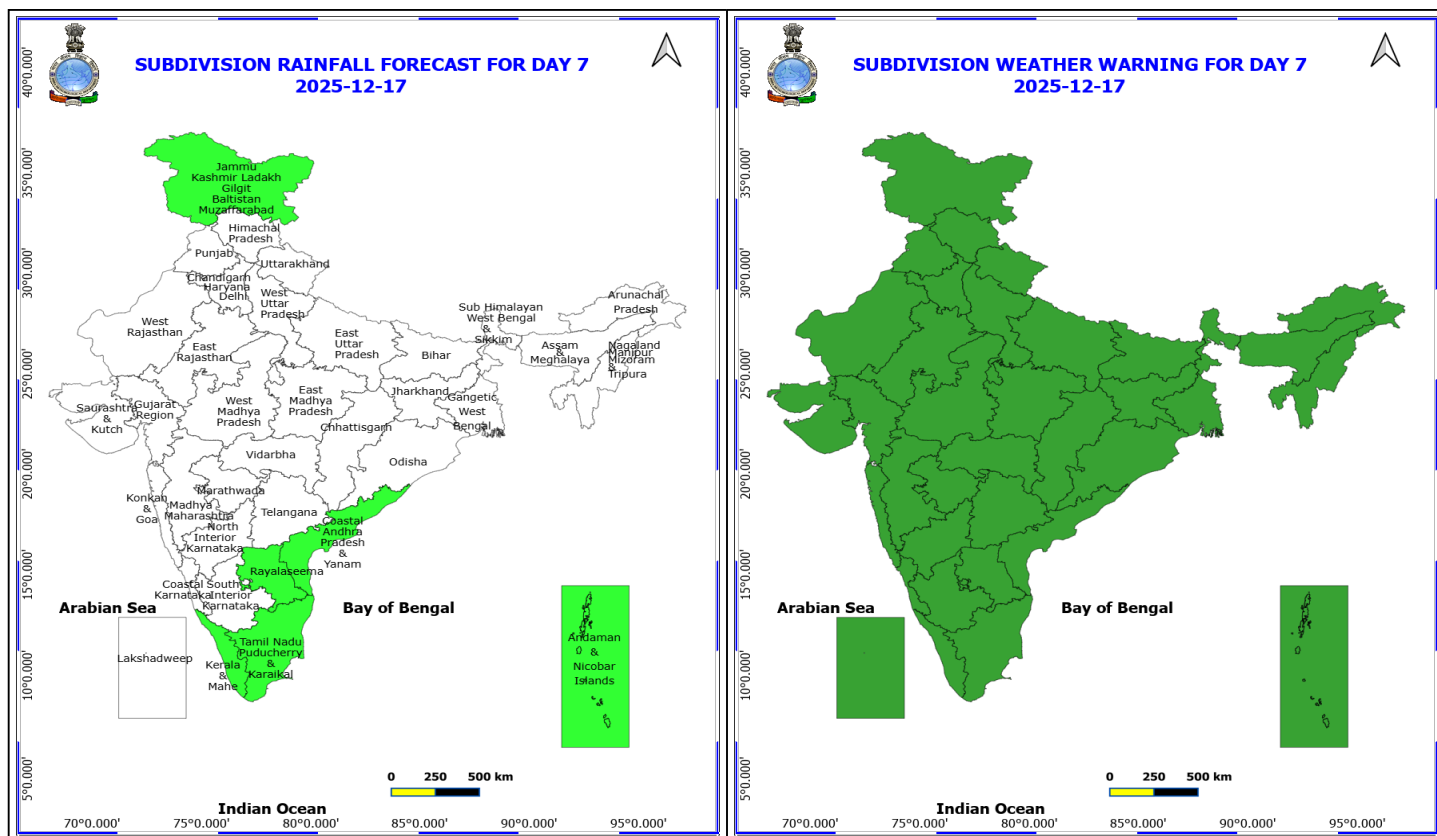
No Fishermen Warning

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17 December (Day 7)

No Warning

No Fishermen Warning

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**Table-1**

## 7 Days Rainfall Forecast

S.No.	Subdivision	11- Dec	12- Dec	13- Dec	14- Dec	15- Dec	16- Dec	17- Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	SCT	FWS	FWS	SCT	SCT	ISOL
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	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	ISOL	DRY	DRY	DRY
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	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	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	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	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
36	LAKSHDWEAP	DRY	DRY	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

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Fig. 1: Maximum Temperatures Dated 2025-12-10

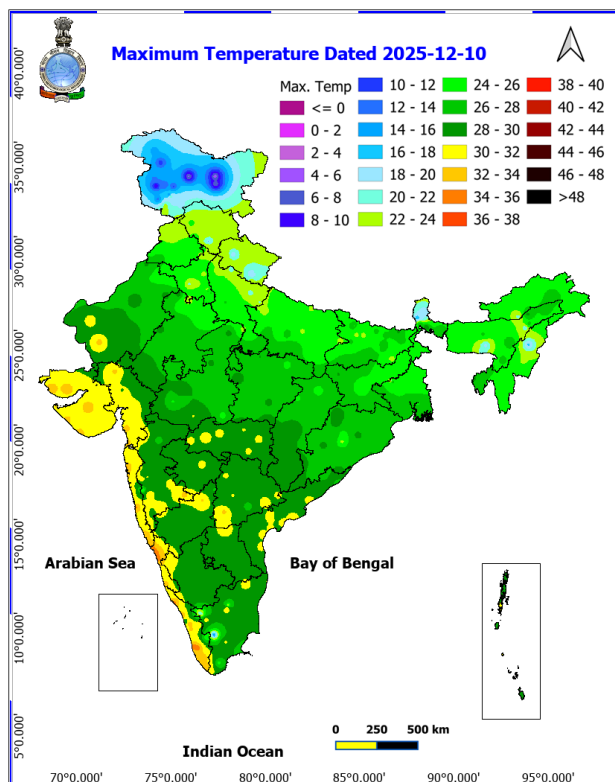


Fig. 2: Departure of Maximum Temp. Dated 2025-12-10

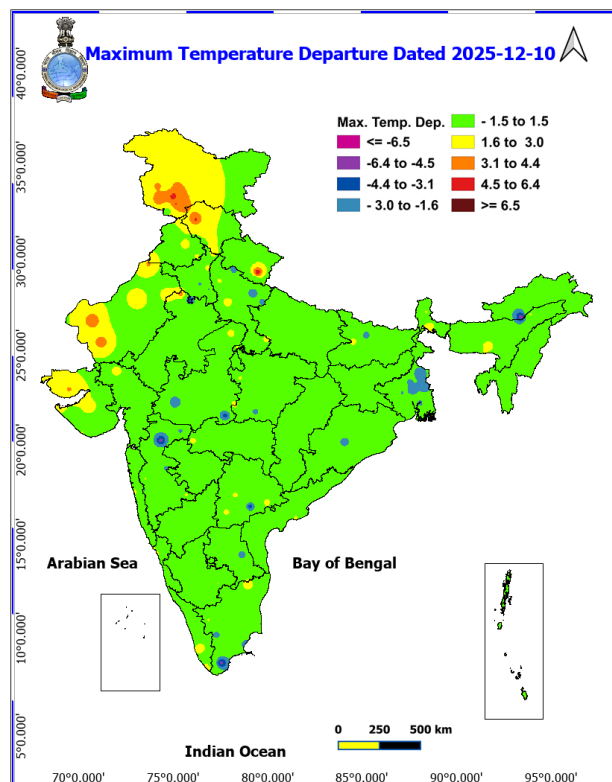


Fig. 3: Minimum Temperatures Dated 2025-12-11

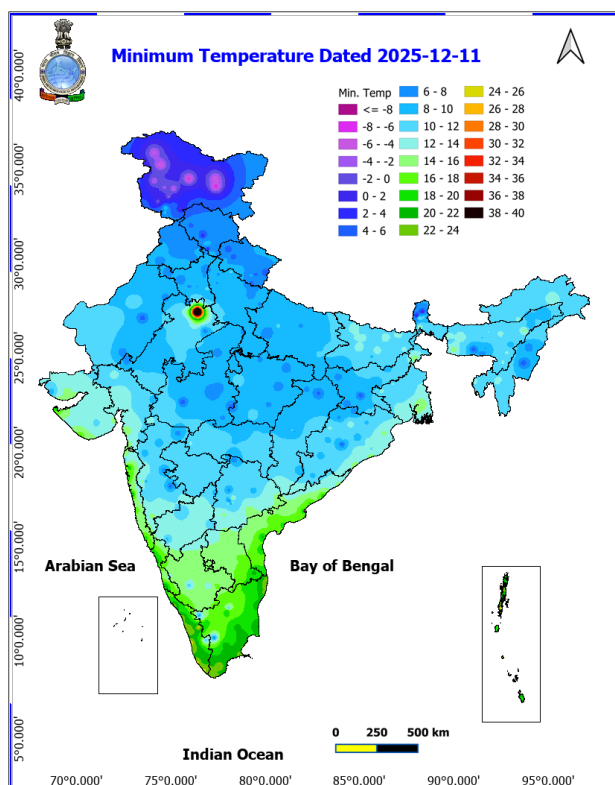
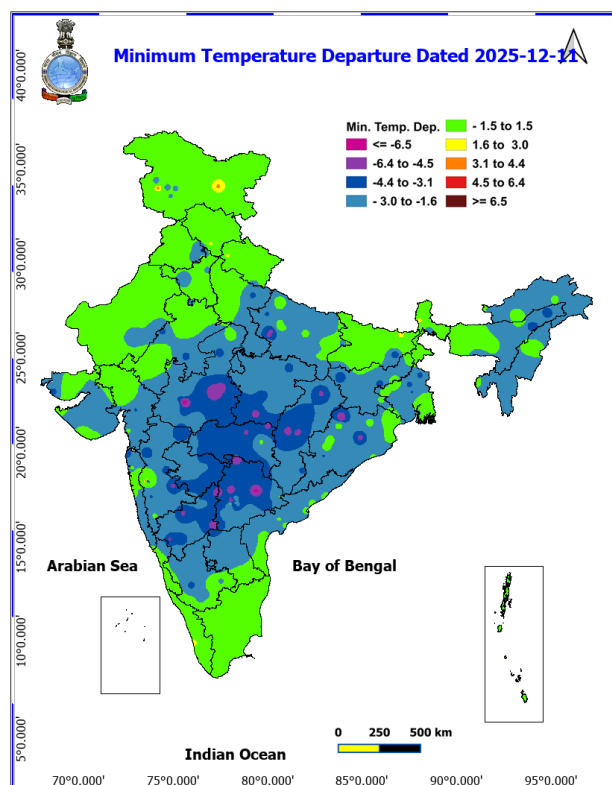
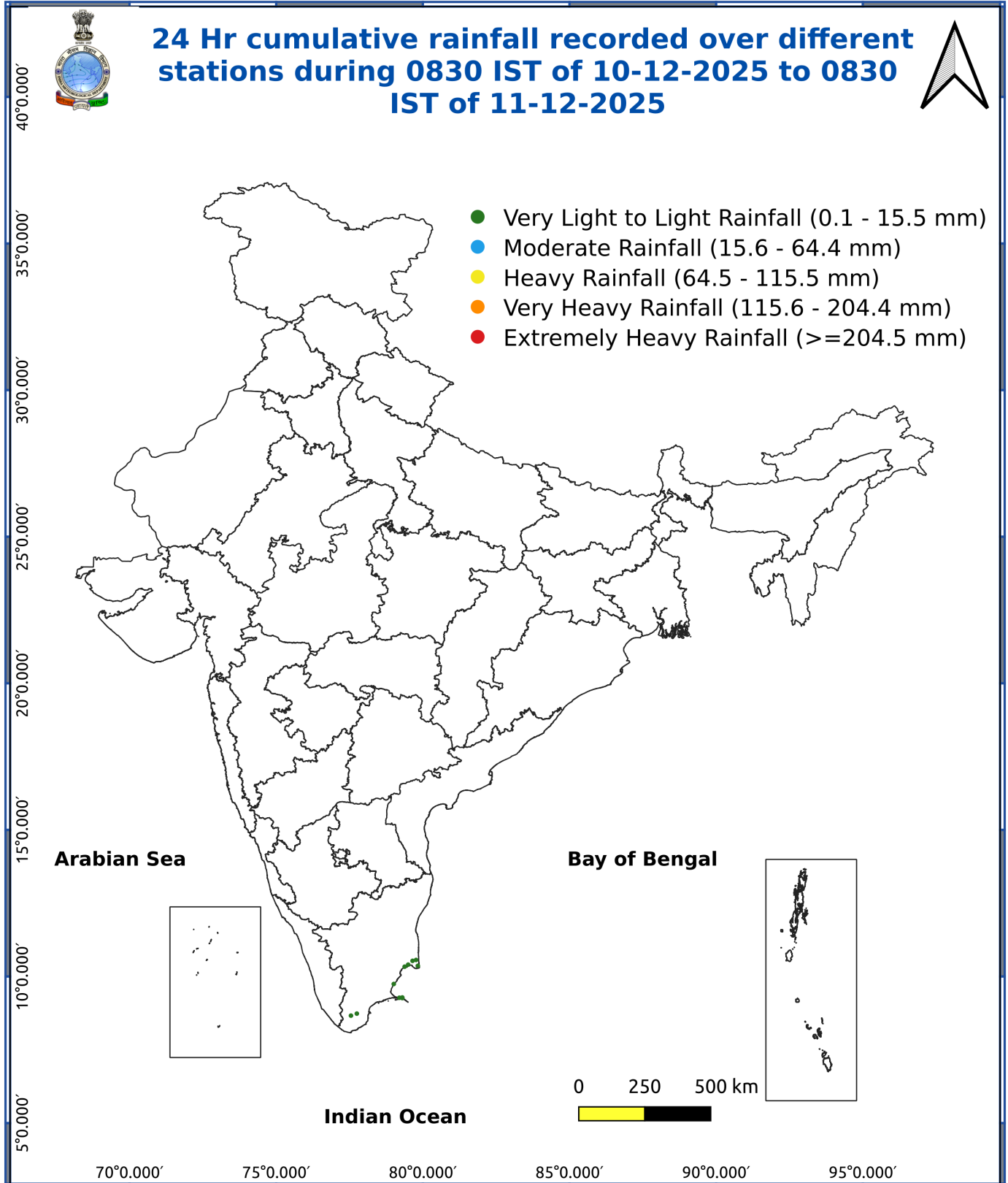


Fig. 4: Departure of Minimum Temp. Dated 2025-12-11





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- **Impact expected due to dense/very dense fog in the morning hours:** likely to prevail during morning hours in isolated pockets of West Uttar Pradesh on 12<sup>th</sup> & 13<sup>th</sup> and over East Uttar Pradesh during 12<sup>th</sup> -14<sup>th</sup> with **very dense fog** over Uttar Pradesh on 12<sup>th</sup> December; Nagaland, Manipur, Mizoram & Tripura, Haryana, Chandigarh & Delhi during 12<sup>th</sup> -16<sup>th</sup>; Assam & Meghalaya and Himachal Pradesh during 12<sup>th</sup> -14<sup>th</sup>; over Odisha on 12<sup>th</sup> and 13<sup>th</sup> and Punjab during 13<sup>th</sup> -16<sup>th</sup> 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 Madhya Maharashtra, Marathwada, West Madhya Pradesh, Vidarbha, Chhattisgarh and Odisha on 12<sup>th</sup> & 13<sup>th</sup>; over Telangana and north interior Karnataka during 12<sup>th</sup> -14<sup>th</sup> 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.

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**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 **Odisha, West Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, 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

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं 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 Rajasthan
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 Widespread (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


 Thunderstorm & Lightning


 Strong surface winds


 Cold Wave


 Hot & Humid


 Very Heavy Rain


 Hailstorm


 Heat Wave


 Cold Day


 Extremely Heavy Rain


 Dust Storm


 Hot Day

 Ground Frost

 Heavy Snow

 Dust Raising Winds

 Warm Night

 FOG Fog

\*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

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## LEGENDS

### WARNING

<b>WARNING (TAKE ACTION)</b>
<b>ALERT (BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING (NO ACTION)</b>

### Probabilistic Forecast

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



Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm \*  
Extremely Heavy: > 204.4 mm/cm \*



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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $\geq 37^{\circ}\text{C}$



When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
Severe Warm Night: When minimum temperature departure  $> 6.4^{\circ}\text{C}$ .



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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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  $\leq 15^{\circ}\text{C}$



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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$



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



Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Ice deposits on ground

Air temperature  $\leq 4^{\circ}\text{C}$  (over Plains)



A strong wind that rises suddenly, lasts for at least 1 minute.

Moderate: Wind speed 52-61 kmph  
Severe: Wind speed 62-87 kmph  
Very Severe: Wind speed  $> 87$  kmph



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



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 Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

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