

2025-12-09

Time of Issue: 13:23:00 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 from 13<sup>th</sup> December.
- Light to moderate rainfall at a few places accompanied with **isolated thunderstorm, lightning and heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal on 09<sup>th</sup> December.
- **Gusty Wind speed (30-40 kmph)** likely to prevail over Andaman & Nicobar Islands on 11<sup>th</sup> & 12<sup>th</sup> and with **thunderstorm, lightning with Gusty Wind speed (30-40 kmph)** likely to prevail on 13<sup>th</sup> & 14<sup>th</sup> December.

#### Forecast of minimum temperatures:

- Gradual fall in minimum temperature by 2<sup>o</sup> C very likely over plains of Northwest India during next 3 days and rise by 2-4<sup>o</sup>C thereafter during subsequent 4 days.
- No significant change in minimum temperature very likely over Central India for next 3 days and rise by 2-3<sup>o</sup>C thereafter for subsequent 4 days.
- Gradual fall in minimum temperature by 2-3<sup>o</sup>C very likely over Maharashtra for next 4 days and no significant change during subsequent 3 days.
- No significant change in minimum temperature over rest parts of India during next 7 days.

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

- **Cold wave conditions** very likely to prevail at isolated places over Punjab, West Madhya Pradesh, Chhattisgarh, Odisha, Madhya Maharashtra, North Interior Karnataka, Telangana, during 10<sup>th</sup>-12<sup>th</sup>, Vidarbha on 10<sup>th</sup>, Haryana and Marathwada on 11<sup>th</sup> & 12<sup>th</sup> December.
- **Dense fog conditions** very likely to prevail during morning hours in isolated pockets of Himachal Pradesh on 10<sup>th</sup>, Odisha on 10<sup>th</sup> & 11<sup>th</sup>, East Uttar Pradesh during 10<sup>th</sup>-13<sup>th</sup> and over Assam and Manipur during 10<sup>th</sup>-14<sup>th</sup> December.

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#### Main Weather Observations:

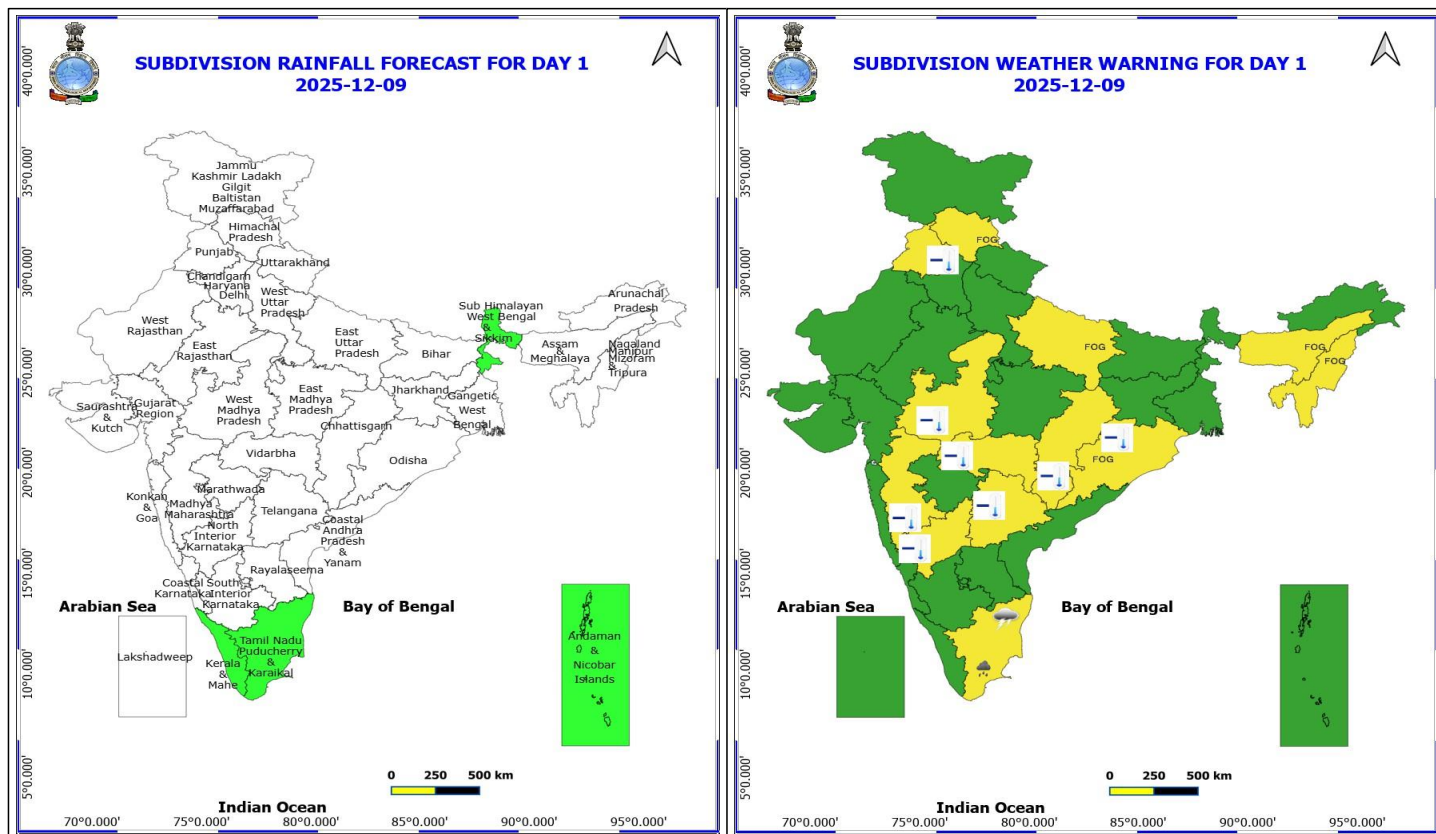
- ♦ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at a few places** over Lakshadweep; **at isolated places** over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **Dry** over rest of the country.
- ♦ **Significant rainfall recorded (in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today):** Tamil Nadu: Kalugumalai (dist Thoothukudi) 1.
  
- ♦ **Fog Condition Observed (at 0830 hours of today):** Very dense to dense fog reported temporarily at isolated pockets of East Uttar Pradesh in the morning hours; dense fog: reported in isolated pockets of Odisha and Meghalaya.
  - ❖ **Visibility reported (at 0830 hours of today):** East Uttar Pradesh: Ams Kushinagar-00, Bahraich-50, Gorakhpur (Iaf)-100; Odisha: Rourkela (70m); Meghalaya: Barapani 150m.
- ♦ **Cold wave conditions** prevailed at isolated places over Chhattisgarh, West Madhya Pradesh, Vidarbha, Odisha, Madhya Maharashtra.
  
- ♦ **Minimum Temperature** were **below normal (-1.6°C to -3.0°C)** at few places over Uttar Pradesh, Arunachal Pradesh, Manipur, Coastal Andhra Pradesh & Yanam, Marathawada, Vidarbha, East Rajasthan; at isolated places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka, Gujarat Region.; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Uttar Pradesh, Assam & Meghalaya, Bihar, Gangetic West Bengal, Jharkhand, West Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Telangana. **markedly below normal (?-5.1°C)** at isolated places over East Madhya Pradesh, Madhya Maharashtra, North Interior Karnataka, Chhattisgarh, Odisha.
  
- ♦ **Minimum temperatures** were **below 5°C** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh; at isolated places over Sub-Himalayan West Bengal & Sikkim; in the **range of 5°-10°C** at many places over Uttarakhand, Punjab, Haryana, Uttar Pradesh, north Rajasthan, Madhya Pradesh, Chhattisgarh; at isolated places over Madhya Maharashtra, Vidarbha, Odisha, Northeast India. **The lowest minimum temperature of 2.8 °C is reported at Adampur (Punjab) over the plains of India.**
  
- ♦ **Maximum Temperature Departures (as on 08-12-2025):** 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 east Bangladesh & neighbourhood persists at 1.5 km above mean sea level.
- ♦ An **upper air cyclonic circulation** lies over central Pakistan & adjoining Punjab at 1.5 km above mean sea level.
- ♦ The **Western Disturbance** now seen as a **trough** in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 81°E to the north of Lat. 23 °N.
- ♦ The **trough** in easterlies now runs roughly along Long. 83 °E over southwest Bay of Bengal and extends upto 1.5 km above mean sea level.
- ♦ **Subtropical westerly Jet Stream** with core winds of the order upto 120 knots at 12.6 km above mean sea level prevails over the plains of North 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 rain fall activity over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, South Kerala, South Tamil Nadu and Islands.



## 9 December (Day 1)

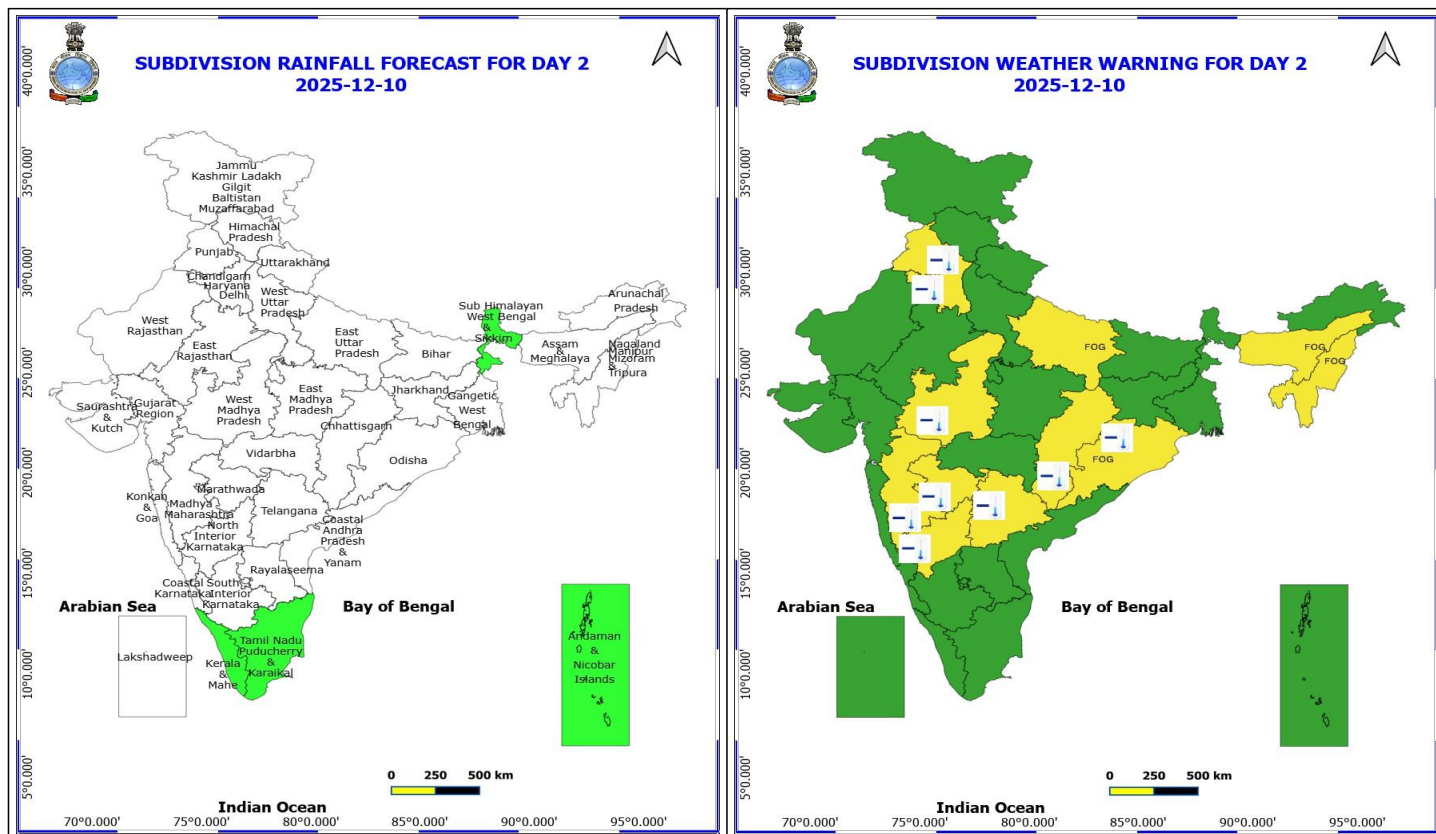
- ❖ **Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Chhattisgarh, Madhya Maharashtra, North Interior Karnataka, Odisha, Punjab, Telangana, Vidarbha and West Madhya Pradesh.
- ❖ **Fog** very likely at isolated pockets over Assam & Meghalaya, East Uttar Pradesh, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura and Odisha.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over most parts of southwest Bay of Bengal, along & off Tamil Nadu and Sri Lanka coasts, over Gulf of Mannar & adjoining Comorin area.

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## 10 December (Day 2)

- ❖ **Cold wave conditions** very likely at isolated places over Chhattisgarh, Haryana, Chandigarh & Delhi, Madhya Maharashtra, Marathwada, North Interior Karnataka, Odisha, Punjab, Telangana and West Madhya Pradesh.
- ❖ **Fog** very likely at isolated pockets over Assam & Meghalaya, East Uttar Pradesh, Nagaland, Manipur, Mizoram and Tripura and Odisha.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over many parts of southwest Bay of Bengal, along & off Tamil Nadu and Sri Lanka coasts, over Gulf of Mannar & adjoining Comorin area.

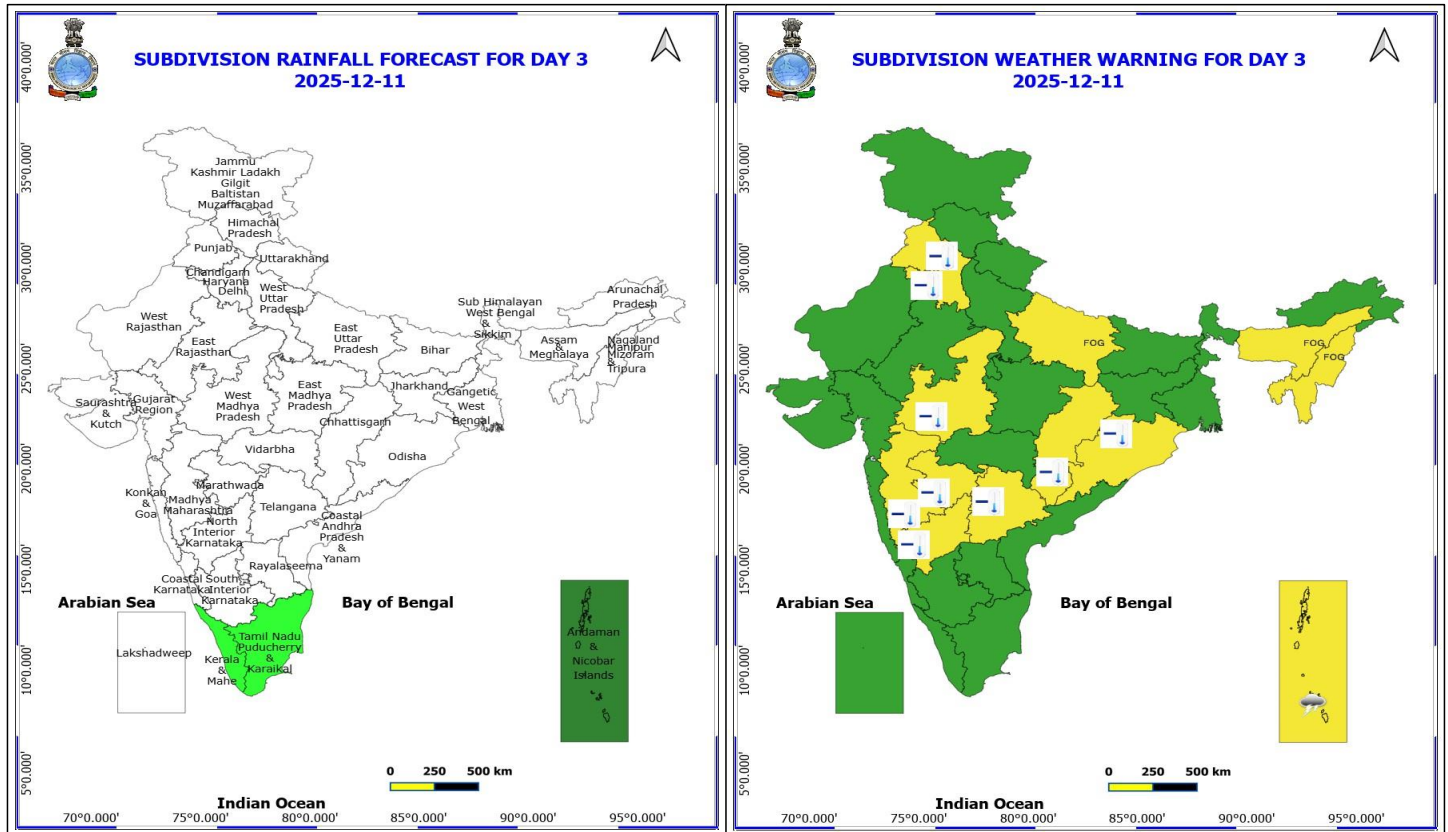
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### 11 December (Day 3)

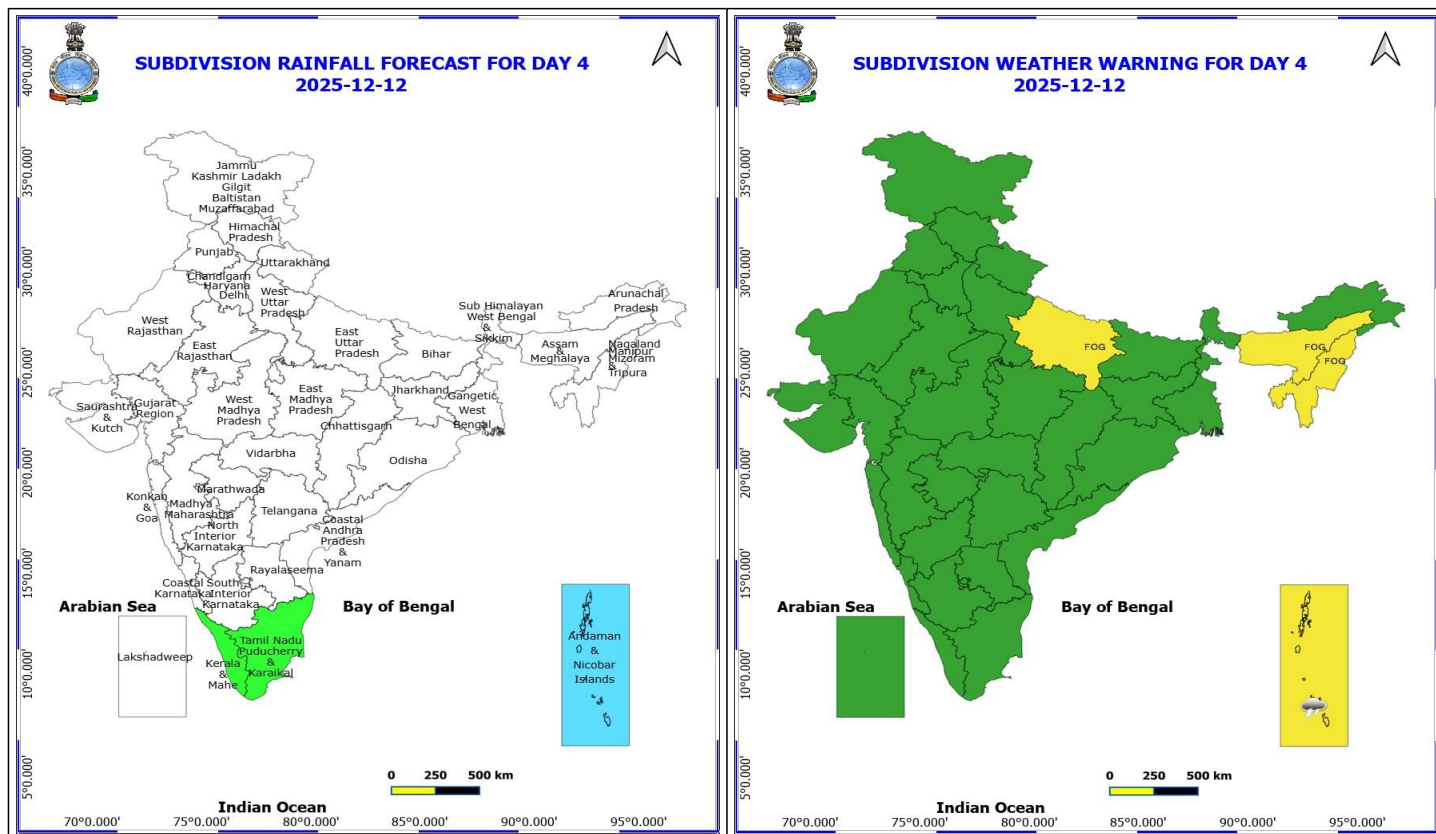
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Cold wave conditions** very likely at isolated places over Chhattisgarh, Haryana, Chandigarh & Delhi, Madhya Maharashtra, Marathwada, North Interior Karnataka,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

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## 12 December (Day 4)

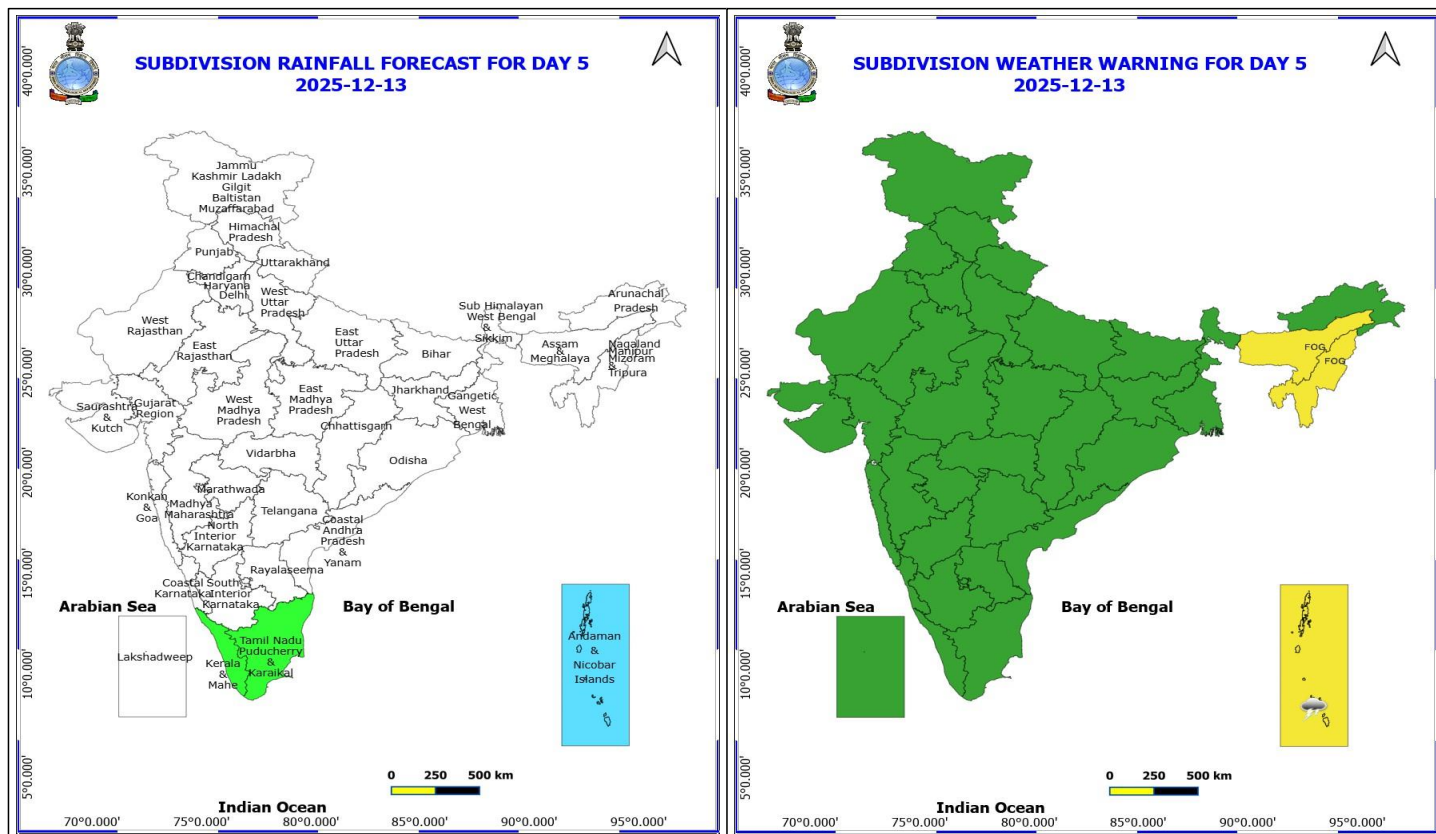
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Fog** likely at isolated pockets over Assam & Meghalaya, East Uttar Pradesh and Nagaland, Manipur, Mizoram and Tripura.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Gulf of Mannar, Comorin area.

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### 13 December (Day 5)

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

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

**No Warning.**

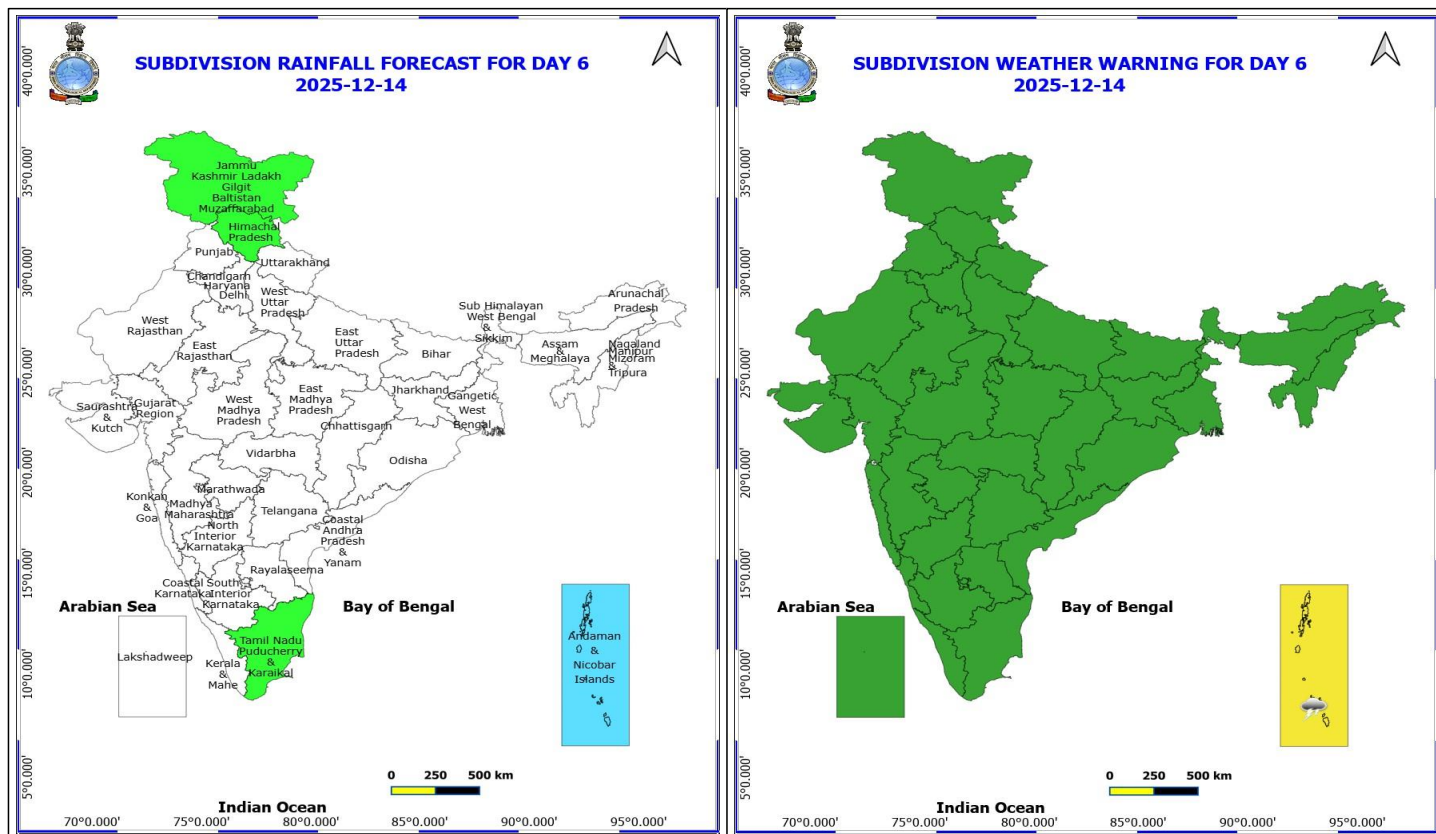
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#### 14 December (Day 6)

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

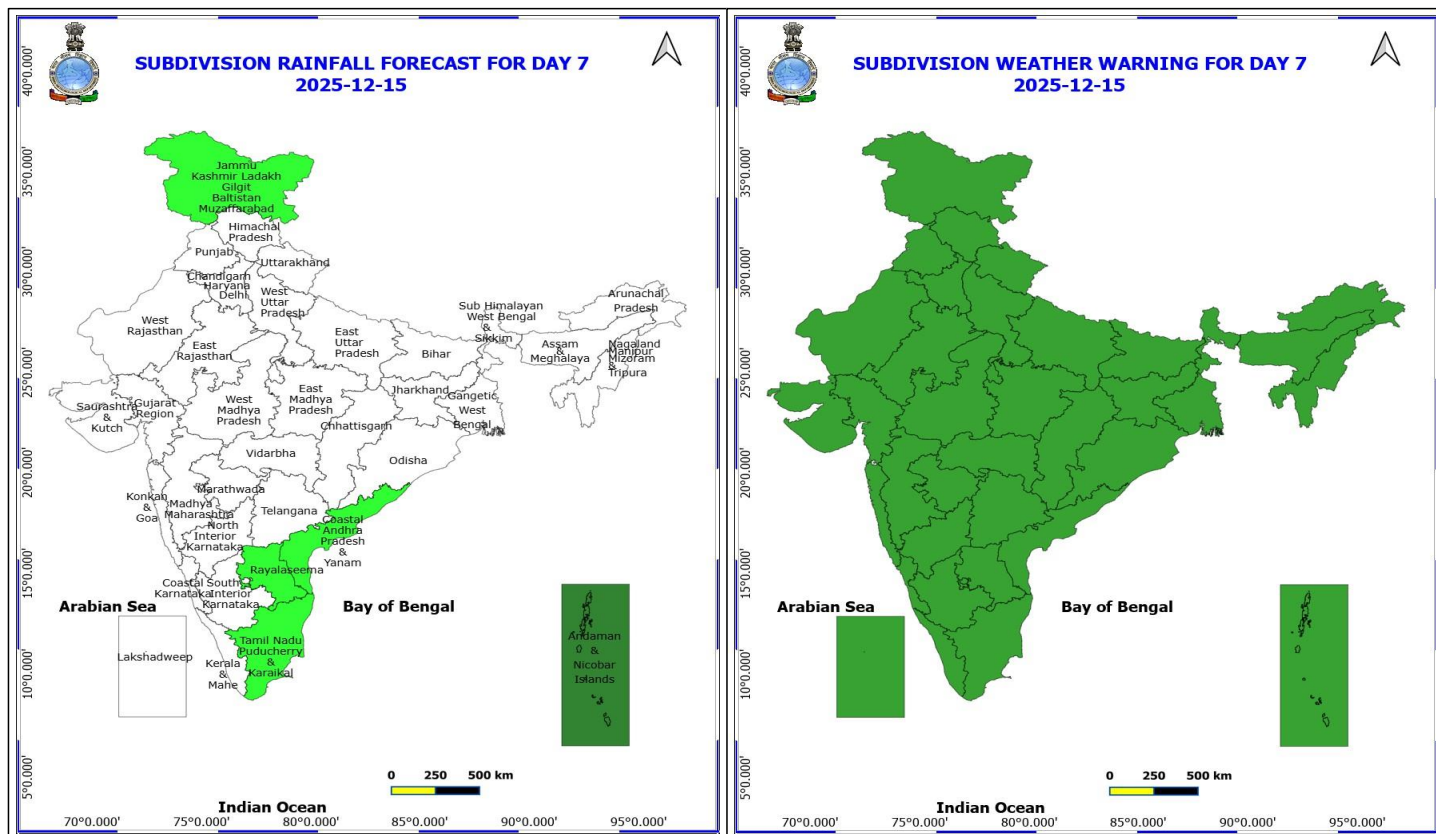
**No Fishermen Warning**

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15 December (Day 7)

No Warning

No Fishermen Warning

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**Table-1**

## 7 Days Rainfall Forecast

S.No.	Subdivision	9- Dec	10- Dec	11- Dec	12- Dec	13- Dec	14- Dec	15- Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	SCT	FWS	FWS	FWS	SCT
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	ISOL	ISOL	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	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	DRY	DRY	ISOL	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	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	DRY	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	DRY	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	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
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 2025-12-08

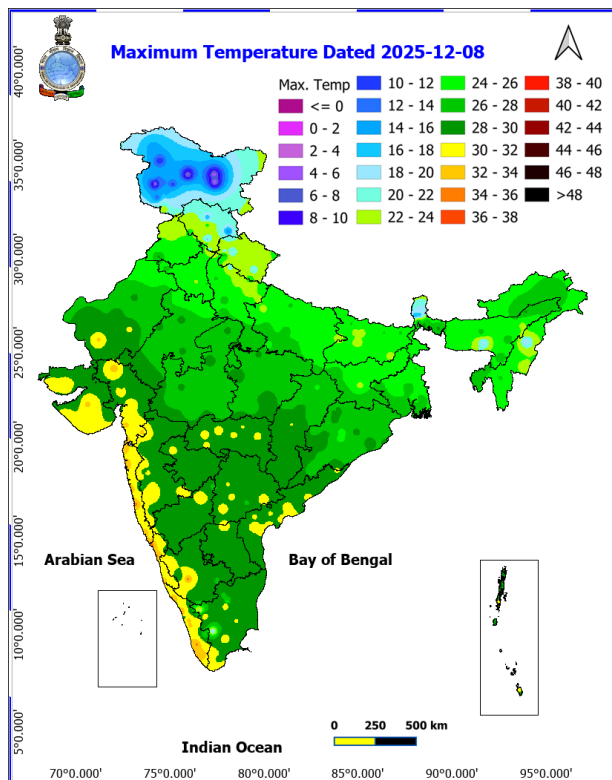


Fig. 2: Departure of Maximum Temp. Dated 2025-12-08

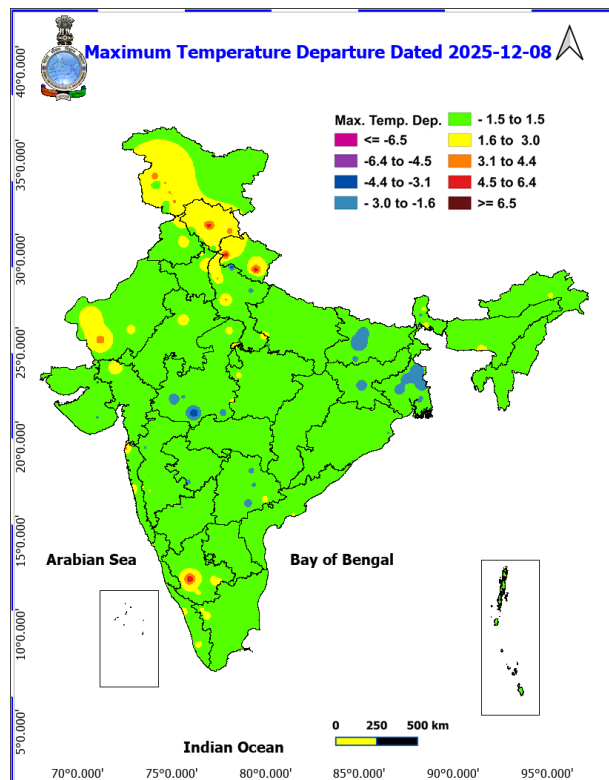


Fig. 3: Minimum Temperatures Dated 2025-12-09

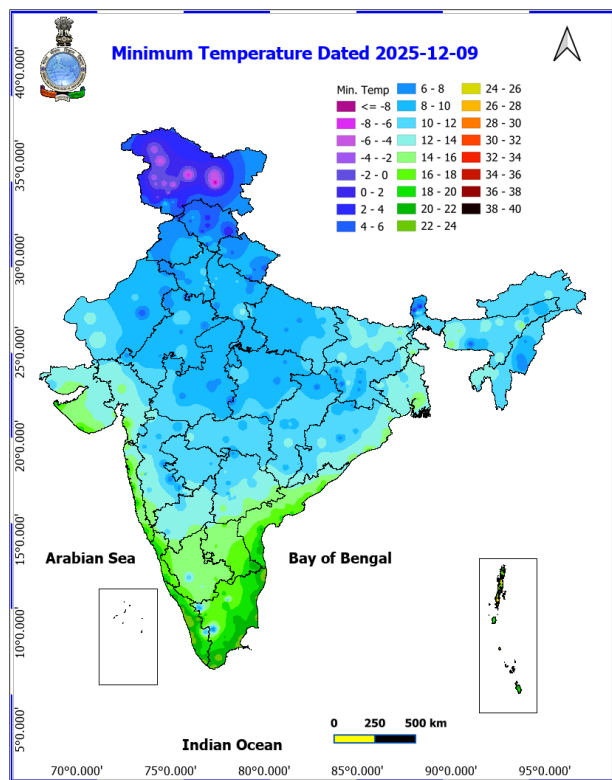
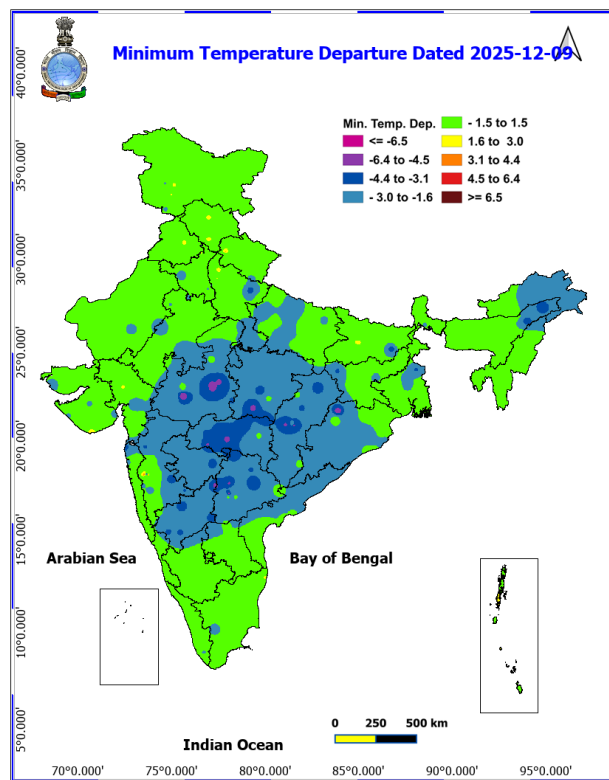
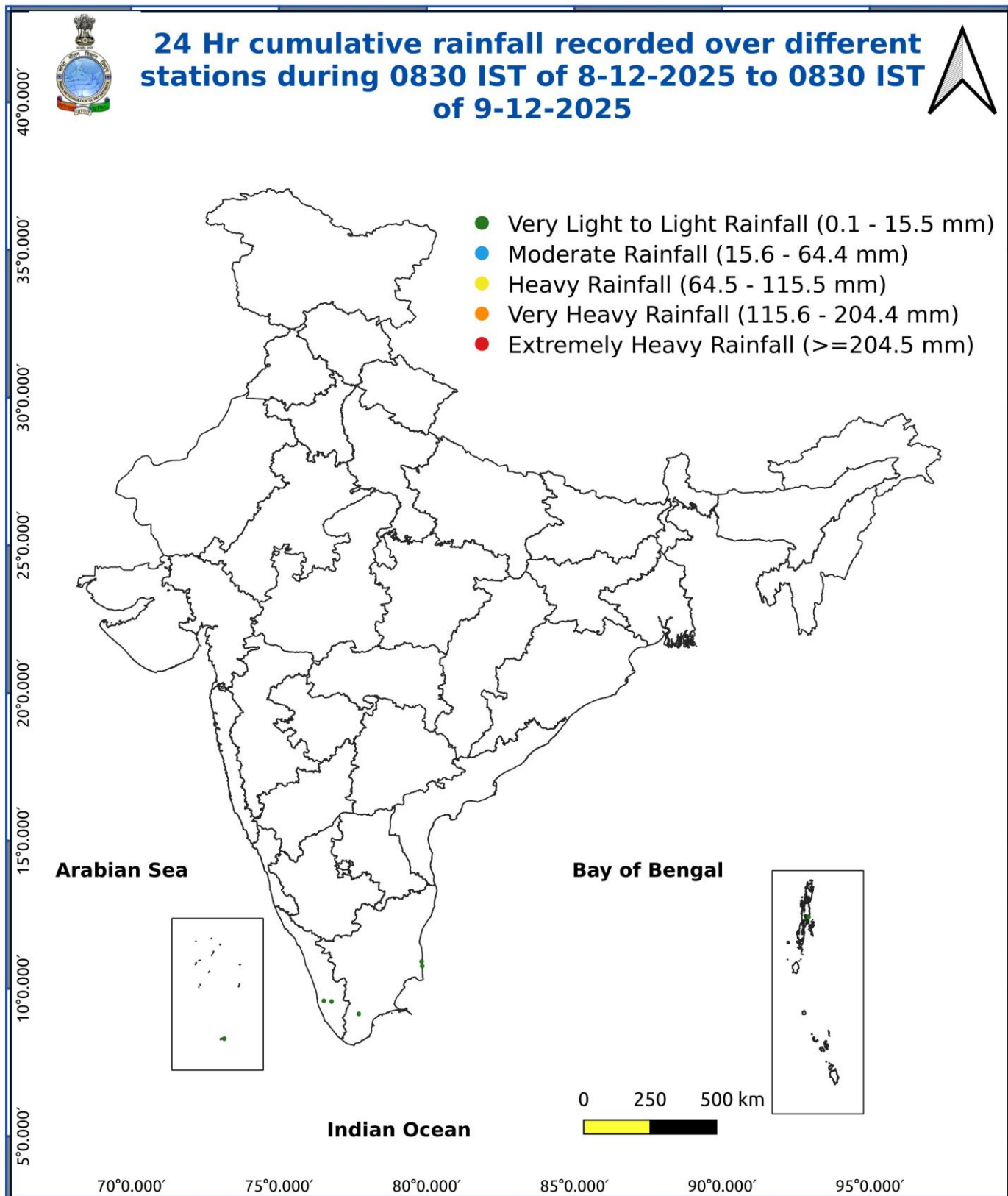


Fig. 4: Departure of Minimum Temp. Dated 2025-12-09







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**Impact expected due to dense/very dense fog in the night/morning hour:** in isolated pockets of Himachal Pradesh on 10<sup>th</sup>, Odisha on 10<sup>th</sup> & 11<sup>th</sup>, East Uttar Pradesh during 10<sup>th</sup>-13<sup>th</sup> and over Assam and Manipur during 10<sup>th</sup>-14<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.

**Agromet advisories for various parts of the country**

**Agromet advisories for likely impact of Heavy Rainfall**

- ♦ In **Tamil Nadu**, drain out excess rain water from the fields of rice, groundnut, sugarcane, cotton, black gram, maize and vegetables and plantations of coconut, banana, areca nut, mango, rubber, cinnamon and black pepper. Strengthen irrigation channels and field bunds in rice to avoid crop lodging. Provide support to banana plants with wooden poles to prevent them from falling.

- ♦ In **Andhra Pradesh**, provide extensive drainage in *rabi* rice nurseries, transplanted rice, Bengal gram, red gram, maize, jowar, already sown crops of ragi, chickpea, black gram, vegetables and orchards. Keep the harvested produce of rice, maize, groundnut and cotton to safer places. Postpone picking of cotton, harvesting of rice and sowing of ragi, chickpea & black gram.
- ♦ In **Kerala**, make necessary arrangements to drain out excess rain water from the fields of rice, vegetables and plantations of banana, coconut, cardamom and black pepper. Carry out propping in banana to prevent their falling due to heavy rainfall. Undertake staking for vegetables grown in pandals.

#### Livestock / Fishery

- ♦ Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- ♦ Store feed and fodder in a safe place to prevent spoilage.
- ♦ Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

#### 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.

#### Agromet advisories for likely impact of Cold Waves/ Low Temperatures

- ♦ In **Punjab, Rajasthan** and **north Madhya Maharashtra**, 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. Cover banana bunches with 6% perforated plastic bags for protection from low temperatures. In **north Madhya Maharashtra**, erect shade nets around grape vines and pomegranate orchards to minimize cold impact.



## 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 गंगेय 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

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

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## 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



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 atleast 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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