

2025-11-10

Time of Issue: 13:27:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings:

- Light to moderate rainfall/thunderstorm at most/many places with **isolated heavy rainfall** very likely over Tamil Nadu on 12th & 13th; over Kerala & Mahe on 10th & 11th and over Lakshadweep on 10th November.
- Thunderstorm with lightning very likely over Tamil Nadu during 10th -14th; over Kerala & Mahe and Lakshadweep on 10th & 11th November.
- No significant weather likely over rest parts of the country during the week.

Forecast of temperature and cold wave warnings:

- **Cold wave to Severe Cold wave conditions very likely** during West Madhya Pradesh 10th -12th November.
- **Cold wave conditions** very likely to prevail in isolated pockets of Haryana Chandigarh & Delhi, Uttar Pradesh during 10th -12th; East Madhya Pradesh and Chhattisgarh during 10th -14th; West Madhya Pradesh on 13th & 14th; Vidarbha on 12th & 13th; Jharkhand and Odisha on 11th & 12th November.
- No large change in minimum temperature over Northeast and east India during next 5 days.
- No large change minimum temperature over Northwest India during next 4-5 days and minimum temperature will be below normal by 2-3°C during the period.
- No large change in minimum temperature over Maharashtra and Gujarat during next 3 days.
- Fall in minimum temperature over Telangana by 3-4°C for 2-3 days and no large change thereafter during subsequent 4 days.

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Main Weather Observations:

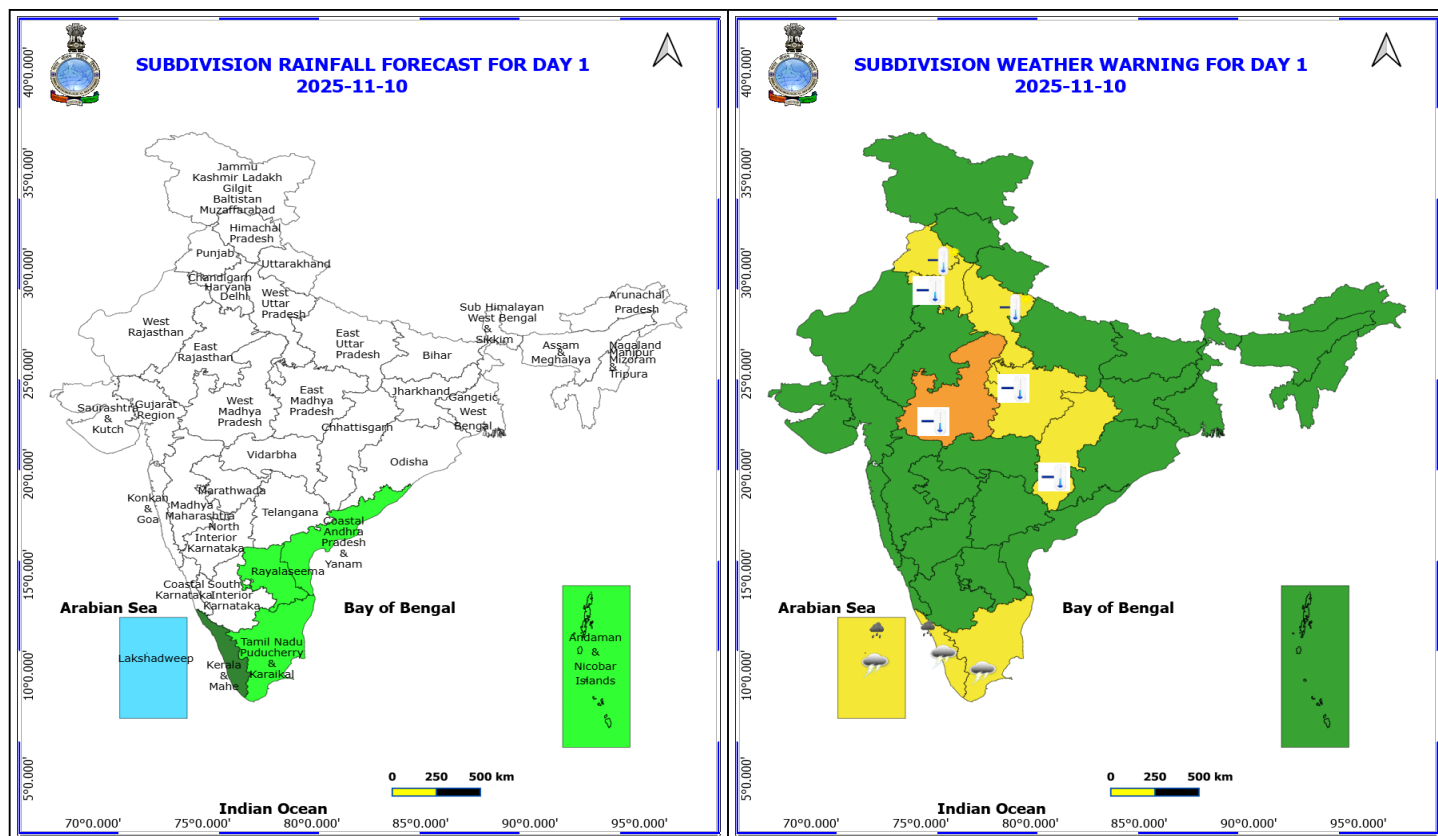
- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at a few places** over Lakshadweep; **at isolated places** over Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka and Kerala & Mahe; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Kerala & Mahe**: Neyyattinkara (dist Thiruvananthapuram) 11; Thiruvananthapuram (dist Thiruvananthapuram) 3; Pirappancode AWS (dist Thiruvananthapuram) 2; **Tamil Nadu, Puducherry & Karaikal**: Kuzhithurai (dist Kanyakumari) 4; Pamban (dist Ramanathapuram), Adayamadai (dist Kanyakumari), Mullanginavillai (dist Kanyakumari) 3 Each; Chittar (dist Kanyakumari), Thirparappu (dist Kanyakumari) 2 Each.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy rain** at isolated places over Kerala & Mahe.
- ❖ **Fog Condition Observed (at 0830 hours of today): Moderate fog conditions:** at isolated places over Himachal Pradesh **Shallow fog conditions:** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, East Uttar Pradesh, Himachal Pradesh and West Madhya Pradesh
- ❖ **Minimum Temperature Departures** (as on 09-11-2025): Minimum temperatures are in range 7-10°C **at many places over** Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, **at a few places over** Punjab, Himachal Pradesh; **at isolated places over** north Haryana, Uttarakhand, East Rajasthan, Madhya Pradesh, Vidarbha, Madhya Maharashtra, Chhattisgarh and Uttar Pradesh. **Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over** Sub-Himalayan West Bengal & Sikkim, at isolated places over Arunachal Pradesh, Assam & Meghalaya, Himachal Pradesh. **These are markedly below normal (-5.1°C or less) at a few places over** Vidarbha, **at isolated places over** East Rajasthan, East Madhya Pradesh, Chhattisgarh, Odisha, Marathwada, Madhya Maharashtra, Telangana, North Interior Karnataka and Haryana-Chandigarh-Delhi; appreciable below normal (-5.0°C to -3.1°C) at a few places over Gujarat state, at isolated places over East Uttar Pradesh, West Madhya Pradesh; below normal (-3.0°C to -1.6°C) at many places over Punjab, West Rajasthan, Gangetic West Bengal, Jharkhand, Konkan & Goa; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rayalaseema and South Interior Karnataka; at isolated places over Bihar and Coastal Andhra Pradesh & Yanam. The lowest minimum temperature of 7.5°C is reported at **ADHAMPUR_I AF (PUNJAB)** over the Plains of India.
- ❖ **Maximum Temperature Departures** (as on 09-11-2025): **Maximum Temperatures were above normal (1.6°C to 3.0°C)** at a few places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura; at isolated places over Uttarakhand, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal. These were **markedly below normal (-5.1°C or less)** at isolated places over East Uttar Pradesh; **below normal (-3.0°C to -1.6°C)** at many places over East Madhya Pradesh, Gujarat state, East Rajasthan; at a few places over Andaman & Nicobar Islands, Haryana-Chandigarh-Delhi; at isolated places over Bihar, West Rajasthan, South Interior Karnataka and normal over rest parts of the country. Today, the highest maximum Temperature of **35.6°C** was reported at **Erode (Tamil Nadu)** over the country.

Meteorological Analysis (Based on 0830 hours IST)

- The **upper air cyclonic circulation** over east central Bay of Bengal now lay over central Bay of Bengal and extends upto 3.1 km above mean sea level.
- The **upper air cyclonic circulation** over Southwest Bangladesh & adjoining Gangetic West Bengal now lay over south Bangladesh & neighbourhood and extends upto 1.5 km above mean sea level.
- The **upper air cyclonic circulation** over North interior Tamil Nadu & neighbourhood at 3.1 km above mean sea level persists.
- The **Western Disturbance** as an upper air cyclonic circulation persists over North Haryana at 3.1 km above mean sea level, however the trough aloft in middle tropospheric westerlies with its axis at 5.8 km above mean sea level along Long. 82°E to the north of Lat. 33°N has moved away east-northeastwards.

Weather Outlook for subsequent 3 days

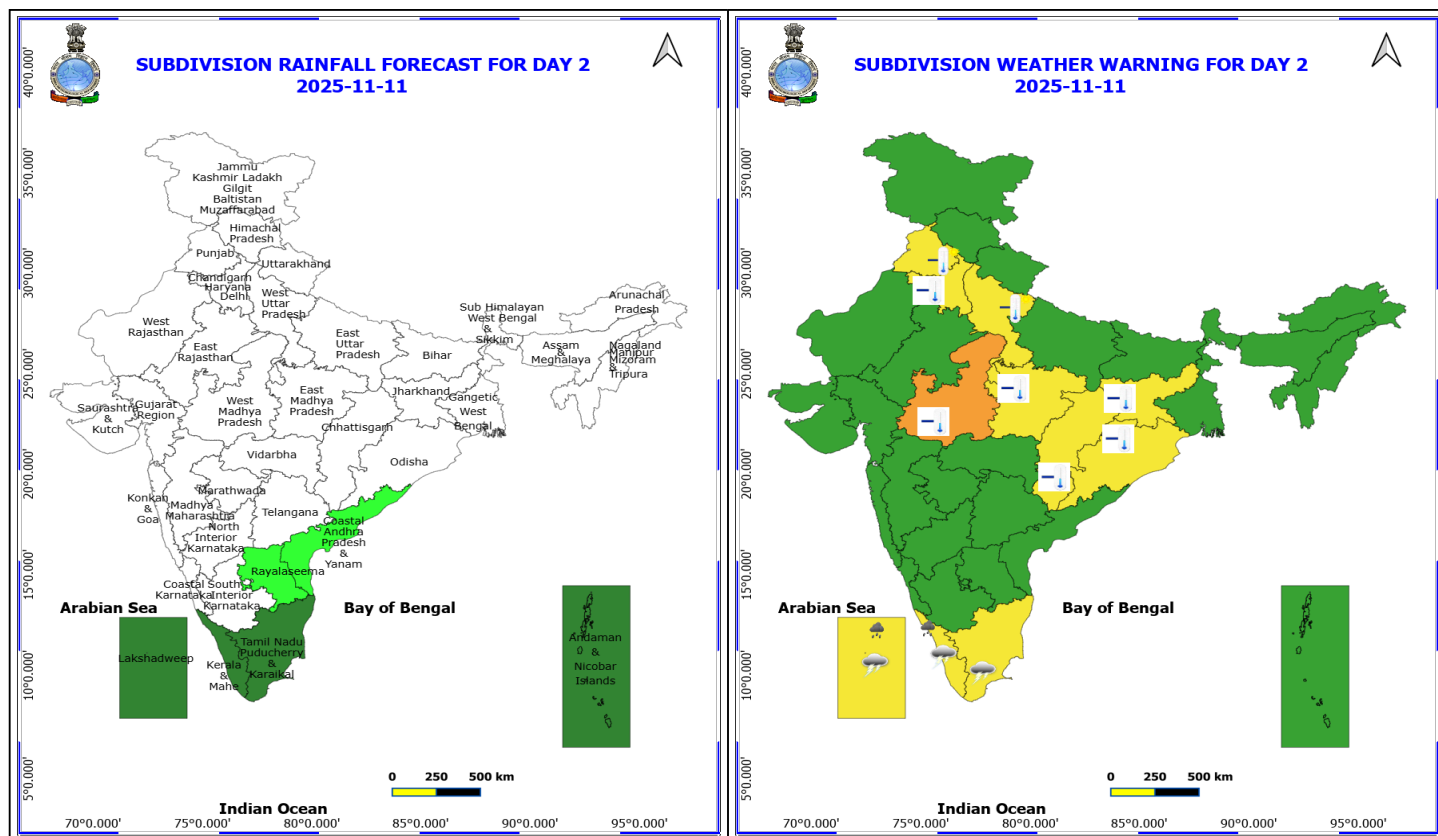
Isolated to scattered rainfall activity likely over Kerala & Mahe, Tamil Nadu, Andaman & Nicobar Islands.



10 November (Day 1)

- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Lakshadweep.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- ❖ **Severe cold wave to Cold wave conditions** very likely at isolated places over west Madhya Pradesh
- ❖ **Cold wave conditions** very likely at isolated places over Chhattisgarh, Haryana, Chandigarh & Delhi and east Madhya Pradesh.
- ❖ **Cold Day** very likely at isolated places over Punjab and West Uttar Pradesh.

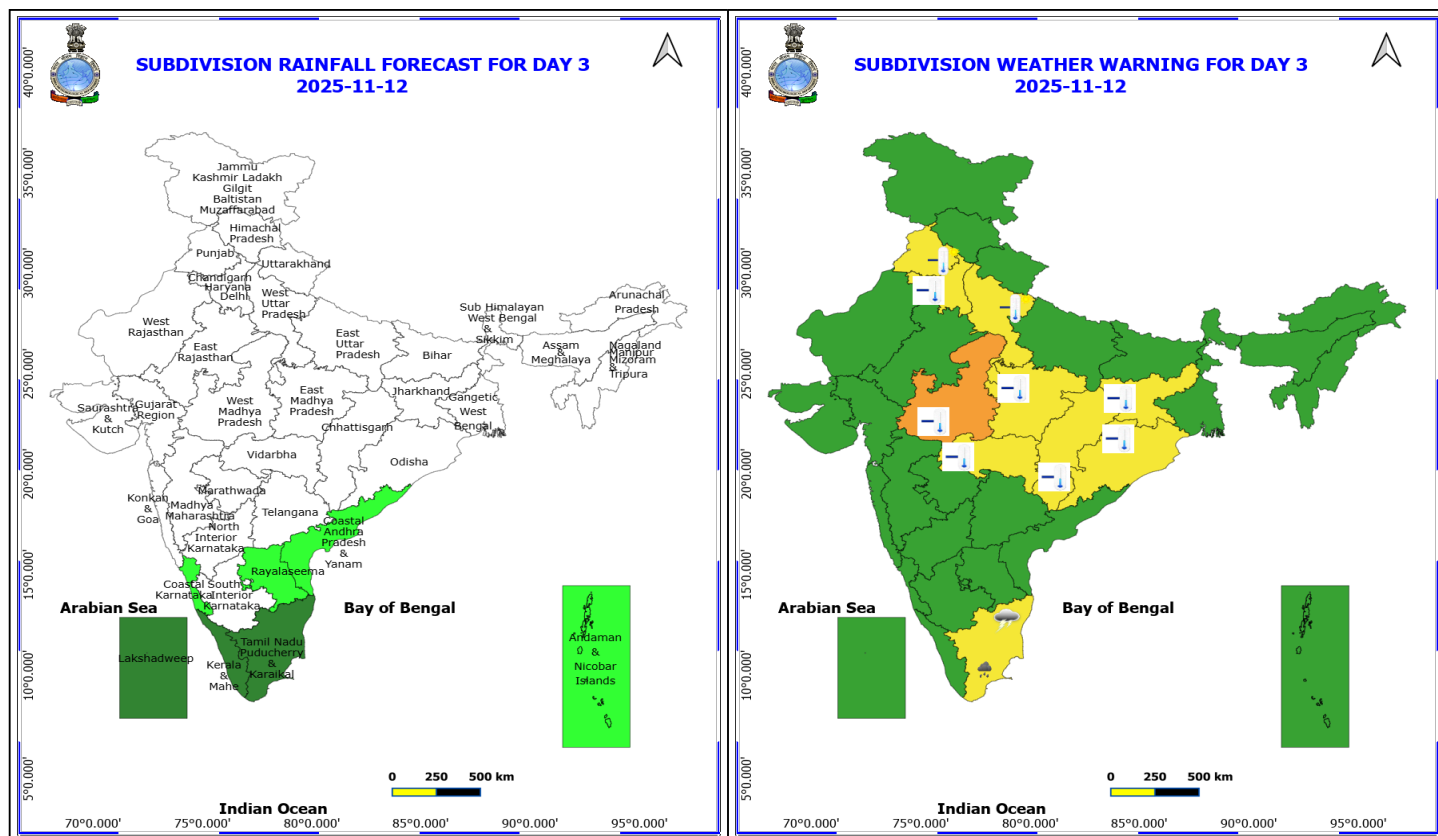
No Fishermen Warning



11 November (Day 2)

- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Lakshadweep.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- ❖ **Severe cold wave to Cold wave conditions** very likely at isolated places over west Madhya Pradesh
- ❖ **Cold wave conditions** very likely at isolated places over Chhattisgarh, Haryana, Chandigarh & Delhi, Jharkhand, east Madhya Pradesh and Odisha.
- ❖ **Cold Day** very likely at isolated places over Punjab and West Uttar Pradesh.

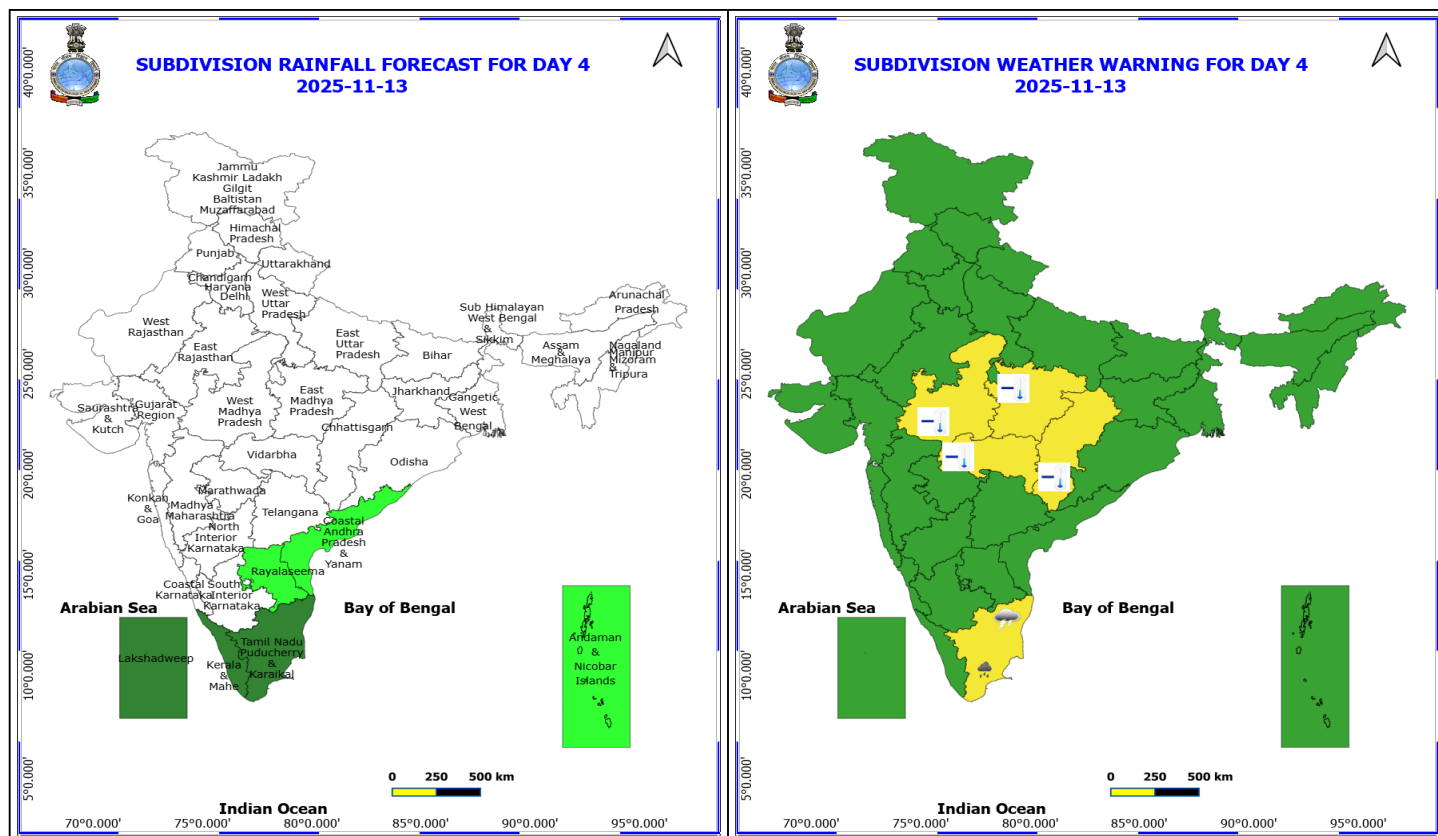
No Fishermen Warning



12 November (Day 3)

- ❖ **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.
- ❖ **Severe cold wave to Cold wave conditions** very likely at isolated places over west Madhya Pradesh
- ❖ **Cold wave conditions** very likely at isolated places over Chhattisgarh, Haryana, Chandigarh & Delhi, Jharkhand, east Madhya Pradesh, Odisha and Vidarbha.
- ❖ **Cold Day** very likely at isolated places over Punjab and West Uttar Pradesh.

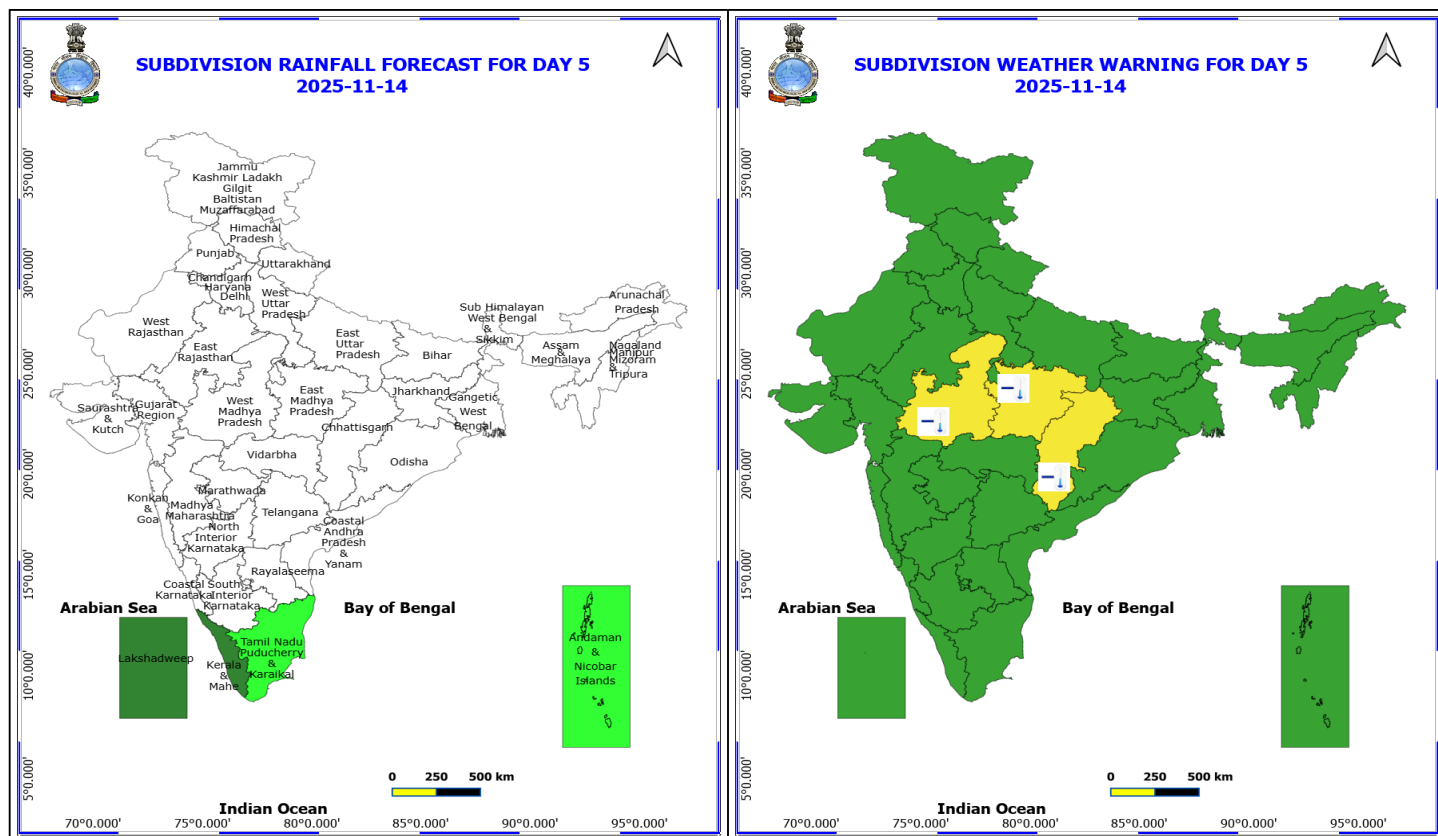
No Fishermen Warning



13 November (Day 4)

- ❖ **Heavy Rainfall** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** likely at isolated places over Chhattisgarh, Madhya Pradesh and Vidarbha.

No Fishermen Warning



14 November (Day 5)

❖ **Cold wave conditions** likely at isolated places over Chhattisgarh and Madhya Pradesh.

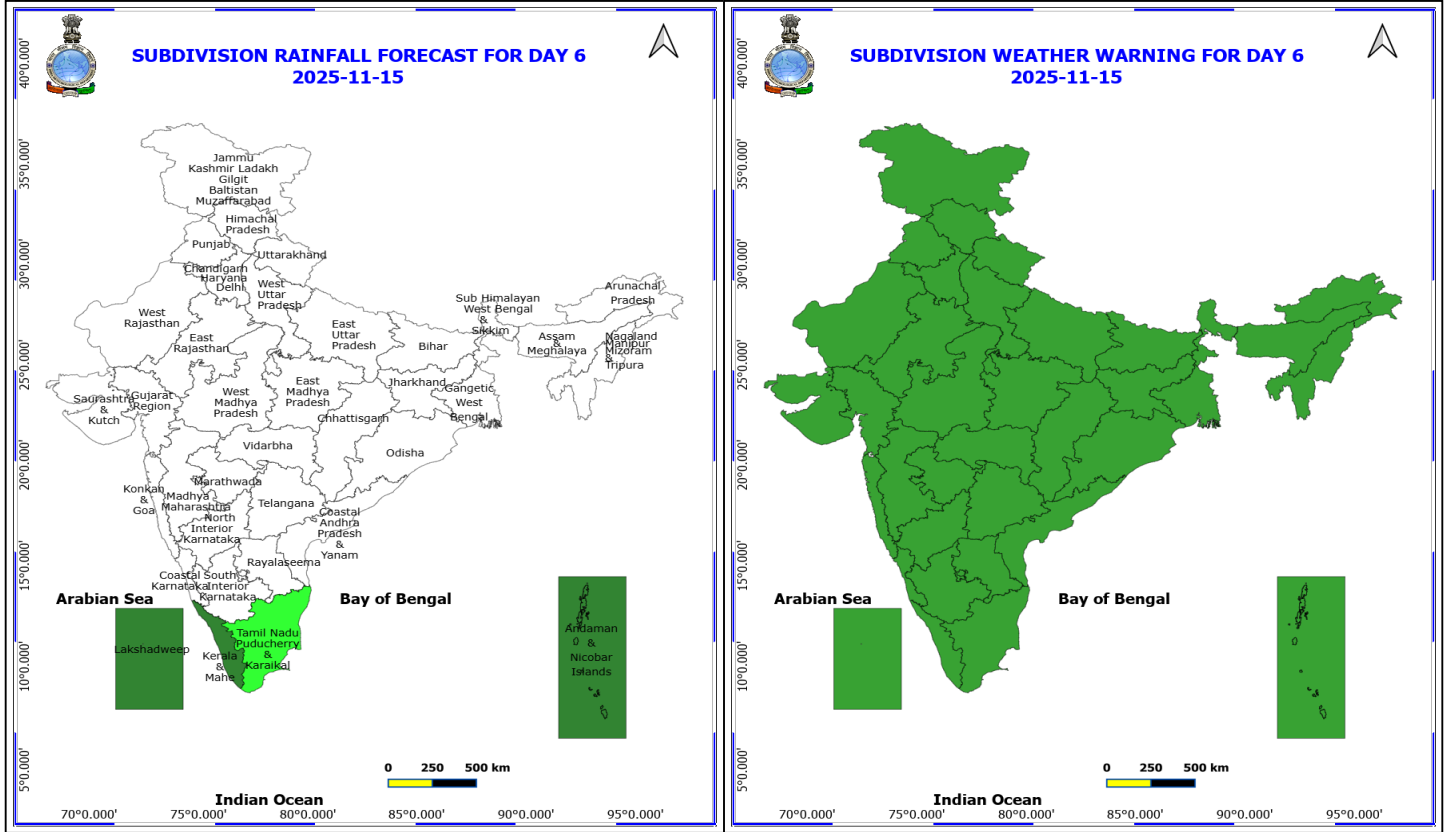
No Fishermen Warning

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15 November (Day 6)

No Warning

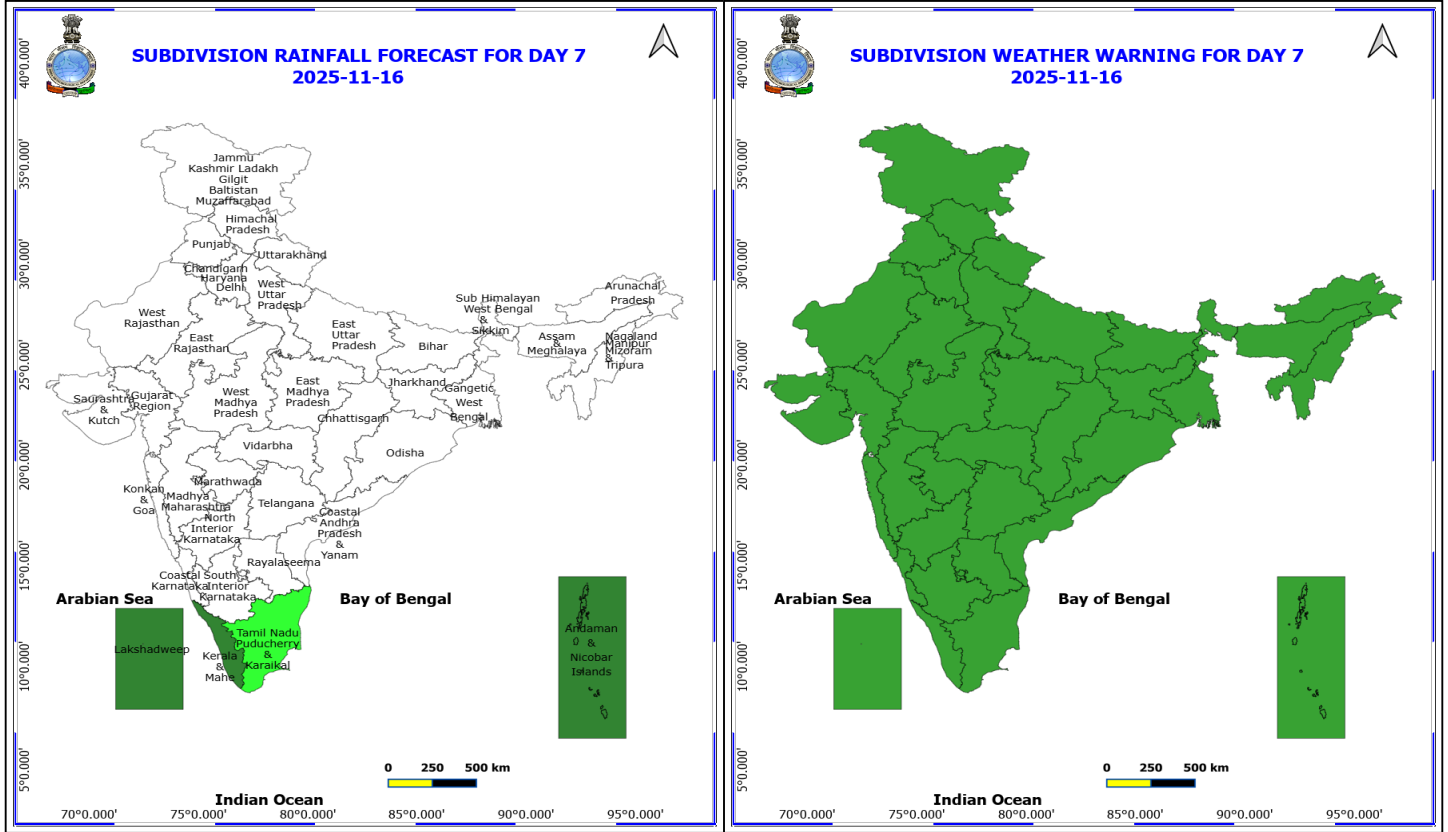
No Fishermen Warning

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16 November (Day 7)

No Warning

No Fishermen Warning

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	10- Nov	11- Nov	12- Nov	13- Nov	14- Nov	15- Nov	16- Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	SCT	ISOL	ISOL	ISOL	SCT	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	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	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	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
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	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	SCT	SCT	SCT	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	DRY	DRY	ISOL	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	SCT	SCT	SCT	SCT	SCT	SCT	SCT
36	LAKSHDWEAP	FWS	SCT	SCT	SCT	SCT	SCT	SCT

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 2025-11-09

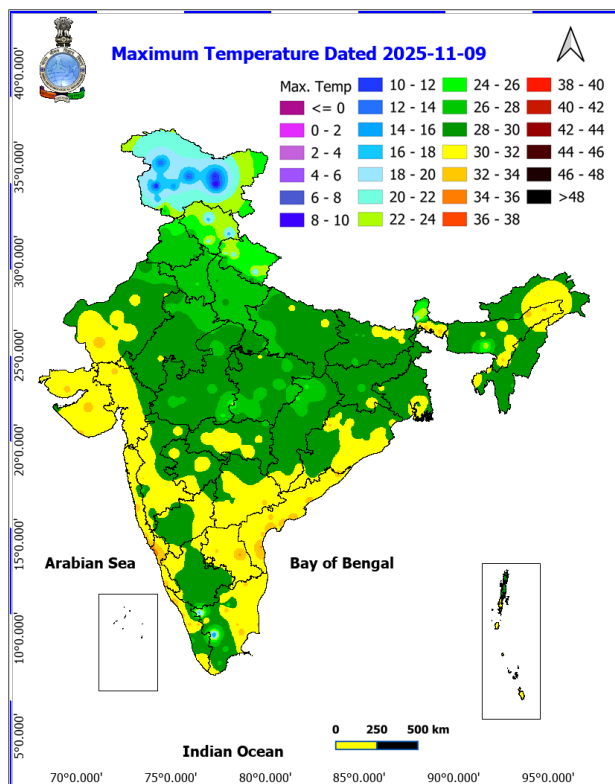


Fig. 2: Departure of Maximum Temp. Dated 2025-11-09

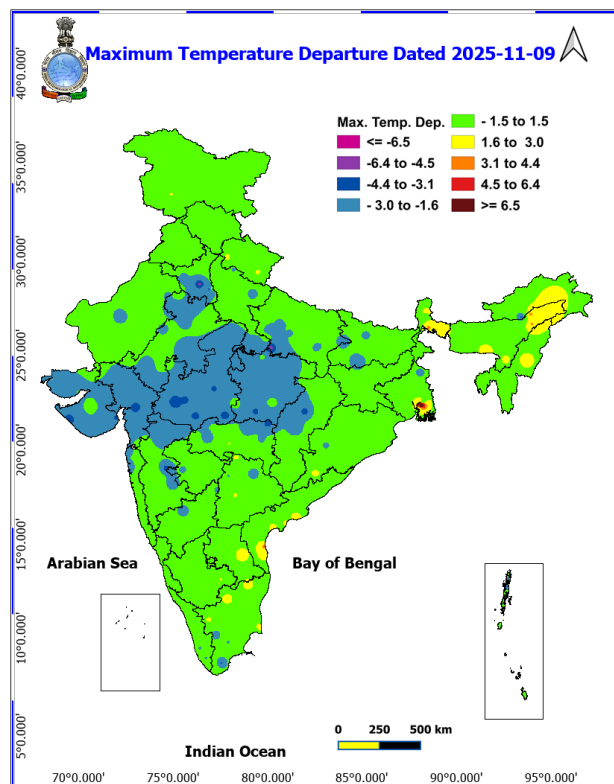


Fig. 3: Minimum Temperatures Dated 2025-11-10

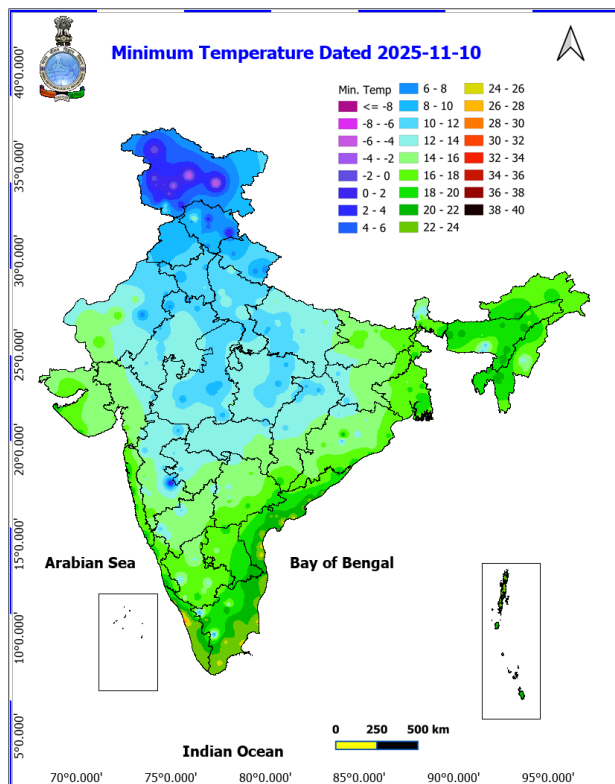
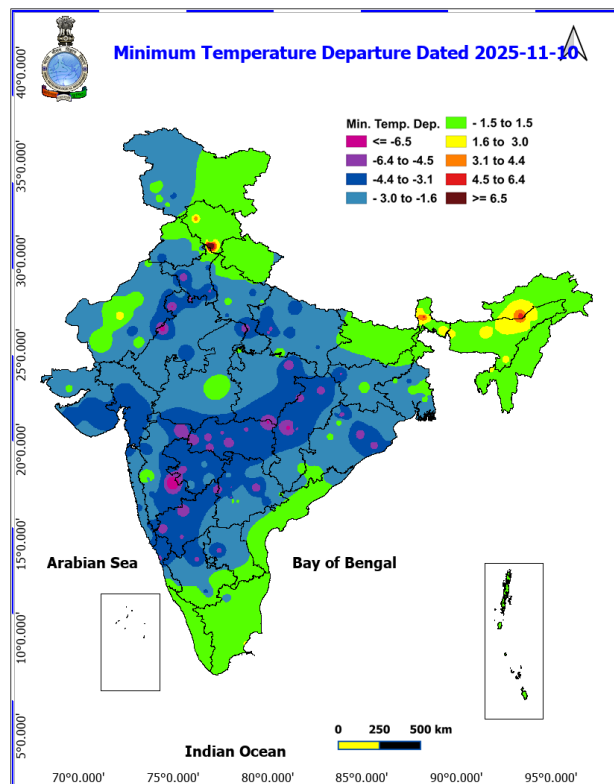
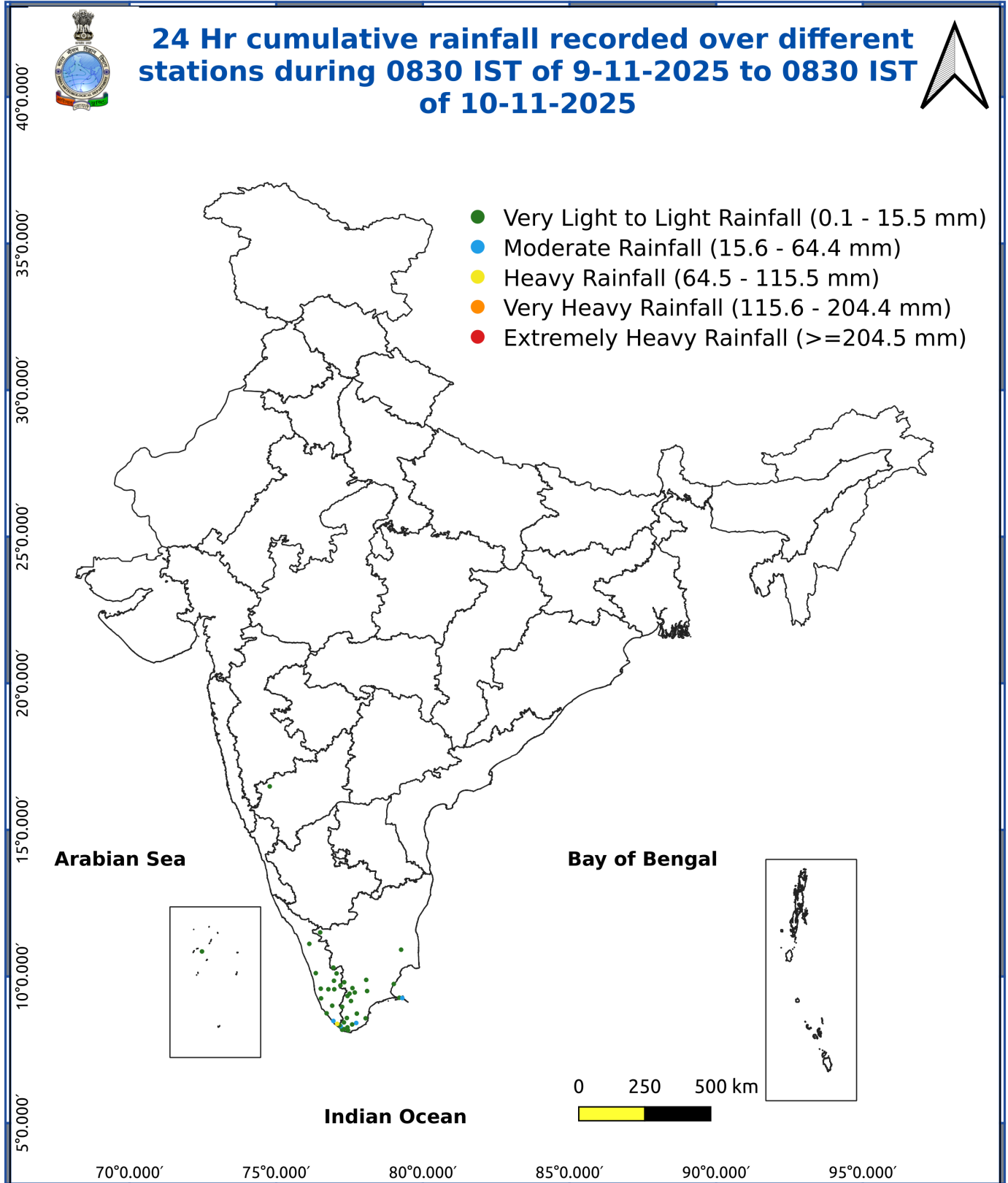


Fig. 4: Departure of Minimum Temp. Dated 2025-11-10





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Impact expected due to Cold Day/Severe Cold day conditions

- **Cold wave to Severe Cold wave conditions very likely** during West Madhya Pradesh 10th -12th November.

IMPACT EXPECTED

- ❖ 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

Inputs for Press Release

Agromet advisories for likely impact of Heavy Rainfall / Cold Wave

(Based on the IBF and advisories issued by different AMFUs)

- In **Tamil Nadu**, harvest matured rice and groundnut crops only during clear weather and store the harvested produce in safer places. Make arrangements to drain out excess water from fields of rice, sugarcane, cotton, black gram, maize and vegetables and plantations of coconut, banana and black pepper to avoid water stagnation.
- In **Punjab, Haryana, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Odisha and Jharkhand**, apply light and frequent irrigation to the standing crops in the evening to protect the crops from low temperature stress or

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cold injuries. Use mulching and cover vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.

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.
- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold..

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

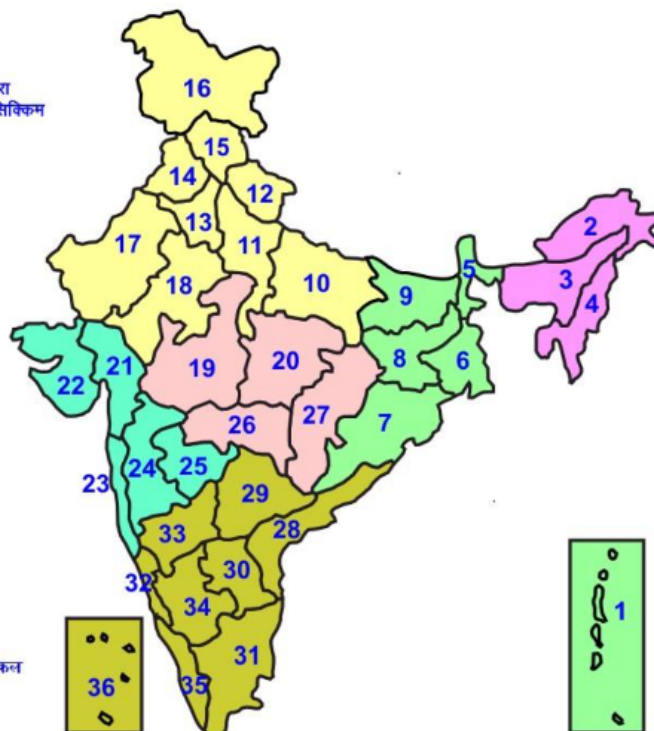
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Legends & abbreviations:

- **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 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
-  Very Heavy Rain
-  Extremely Heavy Rain
-  Heavy Snow
-  Thunderstorm & Lightning
-  Hailstorm
-  Dust Storm
-  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"

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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°C to 6.4°C .
Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.
Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$



When maximum temperature remains 40°C

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



When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.

(a). Based on departure

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

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave: When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$
Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$



When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions
Based on departure

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



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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