

2025-11-18

Time of Issue: 13:11:00 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 during 18th -24th; over Kerala & Mahe on 18th and during 22nd - 24th; over Lakshadweep on 18th & 19th; and Andaman & Nicobar Islands on 19th, 20th & 22nd November; with isolated **very Heavy rainfall** over Tamil Nadu on 18th and Andaman & Nicobar Islands on 21st November.
- Thunderstorm with lightning very likely over Tamil Nadu during 18th -22nd; over Kerala & Mahe on 18th, 19th & 22nd during 17th -19th; over Coastal Andhra Pradesh & Yanam and Rayalaseema and Lakshadweep on 18th & 19th November.

Forecast of temperature and cold wave and cold day warnings:

- No significant change in minimum temperature likely over West and Central India during next 24 Hours and rise by 2-4⁰C thereafter during subsequent 4days.
- Rise in minimum temperature likely by 2-3⁰C over Northwest and east India during next 4days and no significant change thereafter during subsequent 3days.
- **Cold wave to severe cold wave conditions** likely to prevail over some parts of Madhya Maharashtra and West Madhya Pradesh on 18th; **cold wave conditions** likely to prevail over isolated parts West Madhya Pradesh on 19th & 20th, over East Madhya Pradesh during 18th -20th; Vidarbha, Marathwada, Telangana and Chhattisgarh on 18th; Madhya Maharashtra on 19th November.

*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 many places** over Tamil Nadu, Puducherry & Karaikal; **at a few places** over Andaman & Nicobar Islands, Kerala & Mahe and Lakshadweep; **at isolated places** over Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka; **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:** Vedaranyam (dist Nagapattinam) 16; Oothu (dist Tirunelveli) 14; Kodiayakarai (dist Nagapattinam), Nalumukku (dist Tirunelveli) 13 Each; Thirukuvalai (dist Nagapattinam), Kakkachi (dist Tirunelveli) 12 Each; Nagapattinam (dist Nagapattinam), Velankanni (dist Nagapattinam) 11 Each; Thiruthuraipoondi (dist Tiruvarur), Thalaigaiyay (dist Nagapattinam), Tirupoondi (dist Nagapattinam), Manjulai (dist Tirunelveli) 9 Each; Karaikal (dist Karaikal), Adirampatnam (dist Thanjavur) 8 Each; Vedharanyam AWS (dist Nagapattinam), Sirkali (dist Mayiladuthurai), Muthupet (dist Tiruvarur), Tiruvarur AWS (dist Tiruvarur) 7 Each; Mayiladuthurai AWS (dist Mayiladuthurai), Kollidam (dist Mayiladuthurai), Mayiladuthurai (dist Mayiladuthurai), Nannilam (dist Tiruvarur), Tiruvarur (dist Tiruvarur), Kodavasal (dist Tiruvarur), Annamalai Nagar (dist Cuddalore), Sembanarkoil PWD (dist Mayiladuthurai) 6 Each; Chidambaram (dist Cuddalore), Puducherry (dist Puducherry), Madukkur (dist Thanjavur), Pattukottai (dist Thanjavur), Needamangalam (dist Tiruvarur), Chidambaram AWS (dist Cuddalore), Manjalaru (dist Thanjavur) 5 Each; **Rayalaseema:** Tada (dist Tirupati) 11; Satyavedu (dist Tirupati) 9; **Kerala & Mahe:** Kunnammangalam AWS (dist Kozhikode) 8.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy rain** at isolated places over Tamil Nadu, Puducherry & Karaikal. **Heavy rain** at isolated places over Rayalaseema and Kerala & Mahe.

❖ **Fog Condition Observed (at 0830 hours of today): Dense fog conditions:** at isolated places over Tamilnadu Puducherry & Karaikal **Moderate fog conditions:** at isolated places over Himachal Pradesh **Shallow fog conditions:** at a few places over Punjab, at isolated places over East Uttar Pradesh, Himachal Pradesh and Tamilnadu Puducherry & Karaikal

❖ **Visibility reported (at 0830 hours of today):** Tamilnadu Puducherry & Karaikal: Vellore-obs (dist Vellore) 500.0; Himachal Pradesh: Sundernagar (dist Mandi) 200.0, Mandi (dist Mandi) 500.0; Punjab: Patiala (dist Patiala), Amritsar (rajasansi) AP (dist Amritsar) 500.0 Each; East Uttar Pradesh: Varanasi (babatpur) AP (dist Varanasi), Fursatganj (dist Amethi), Allahabad (dist Prayagraj) 500.0 Each;.

❖ **Minimum Temperature Departures (as on 18-11-2025): below normal(-1.6°C to -3.0°C)** at few places over Jharkhand; at isolated places over Konkan & Goa and Madhya Maharashtra. **appreciably below normal(-5.0°C to -3.1°C)** at many places over Marathwada, Telangana and North Interior Karnataka; at few places over Chhattisgarh. **markedly below normal(< -5.0°C)** at most places over East Madhya Pradesh. **The lowest minimum temperature of 5.8°C is reported at Rajgarh (West Madhya Pradesh) over the plains of India.**

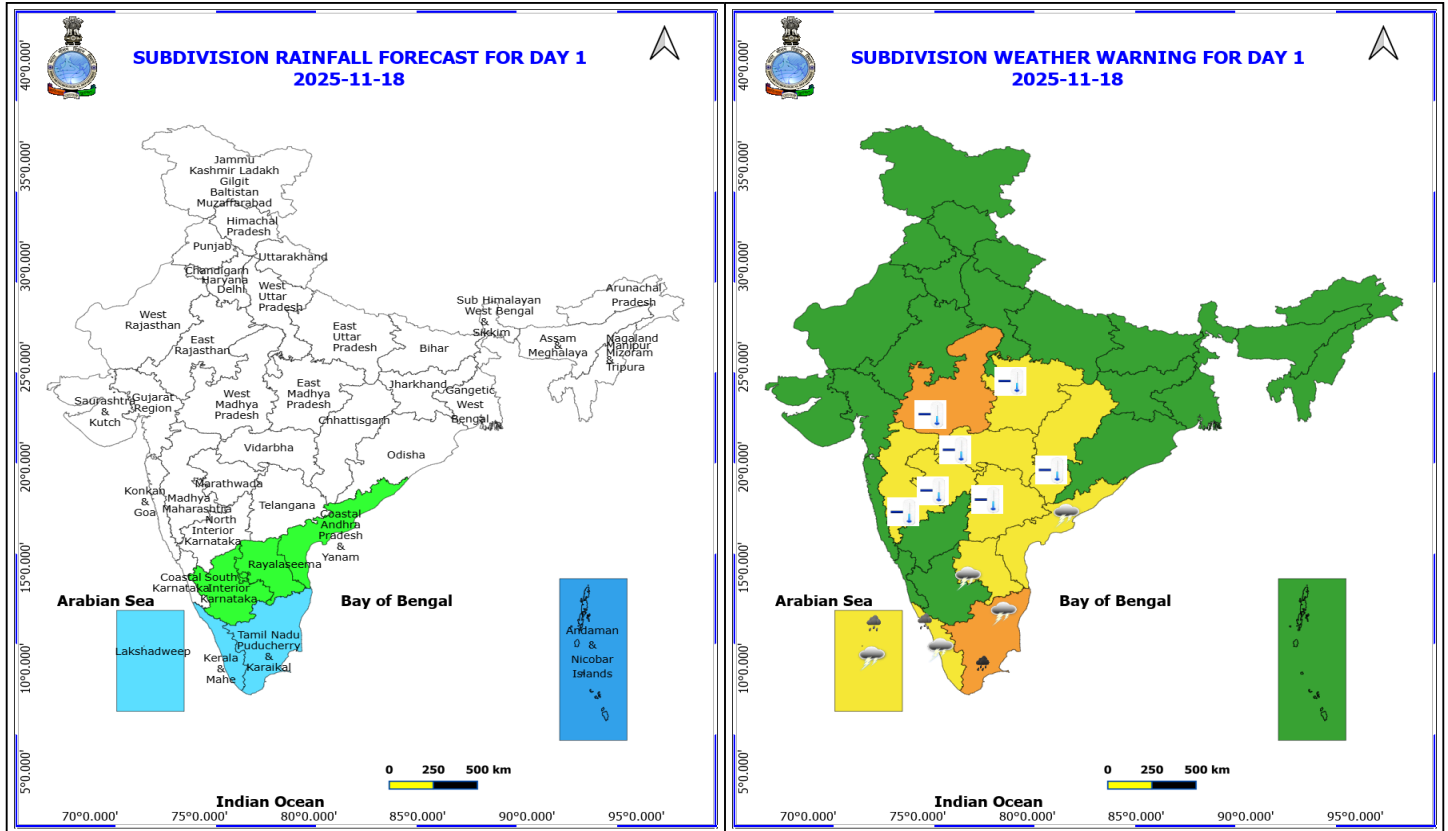
❖ **Maximum Temperature Departures (as on 17-11-2025): below normal(-1.6°C to -3.0°C)** at most places over Marathwada. **The highest maximum temperature of 35.0°C is reported at CANNANORE (KANNUR) (KERALA).**

Meteorological Analysis (Based on 0830 hours IST)

- The **Low-Pressure area** over southwest Bay of Bengal and adjoining Sri Lanka lay over Comorian area and neighbourhood at 0830 hrs IST of today, the 18th November 2025, and the associated cyclonic circulation extends upto 5.6 km above mean sea level. It is likely to move slowly west-northwestwards during next 24 hours.
- A **low Pressure area** is likely to form over Southeast Bay of Bengal around 22nd November 2025. Thereafter It is very likely to move west-northwestwards and become more marked during subsequent 48 hours.
- The upper air **cyclonic circulation** over Kashmir & neighbourhood at 3.1 km above mean sea level has become less marked.

Weather Outlook for subsequent 3 days

- fairly widespread to widespread rainfall activity likely over Tamil Nadu, Kerala and Islands.
- Isolated to Scattered rainfall activity over Coastal Andhra Pradesh, Coastal Karnataka and South Interior Karnataka.



18 November (Day 1)

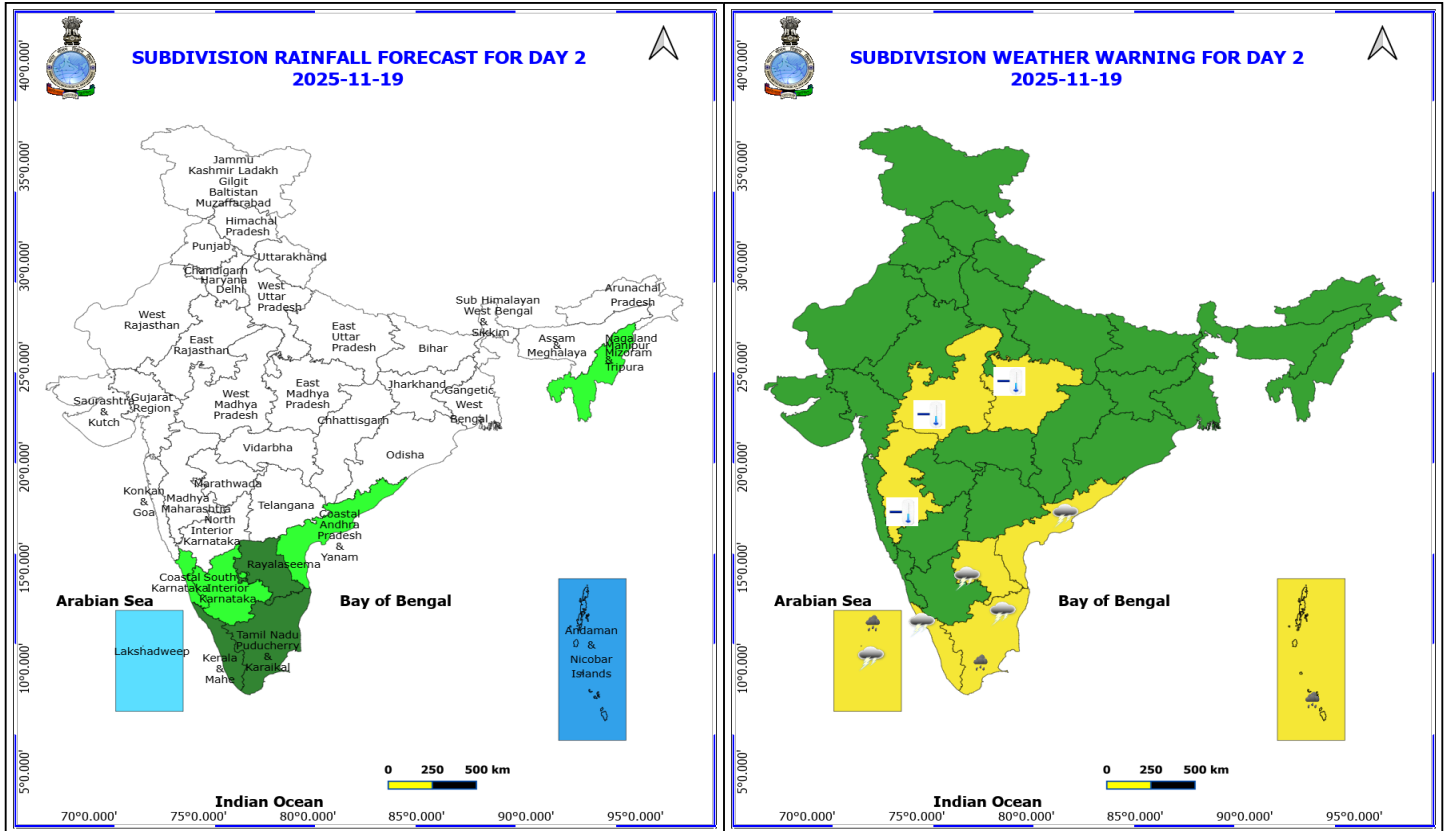
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Lakshadweep.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Chhattisgarh, Madhya Pradesh, Maharashtra and Telangana.
- **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** will prevail along and off south Kerala coast, adjoining Lakshadweep area, over Comorin area, Gulf of Mannar, along and off Tamil Nadu and south Andhra Pradesh coasts and adjoining sea areas.

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19 November (Day 2)

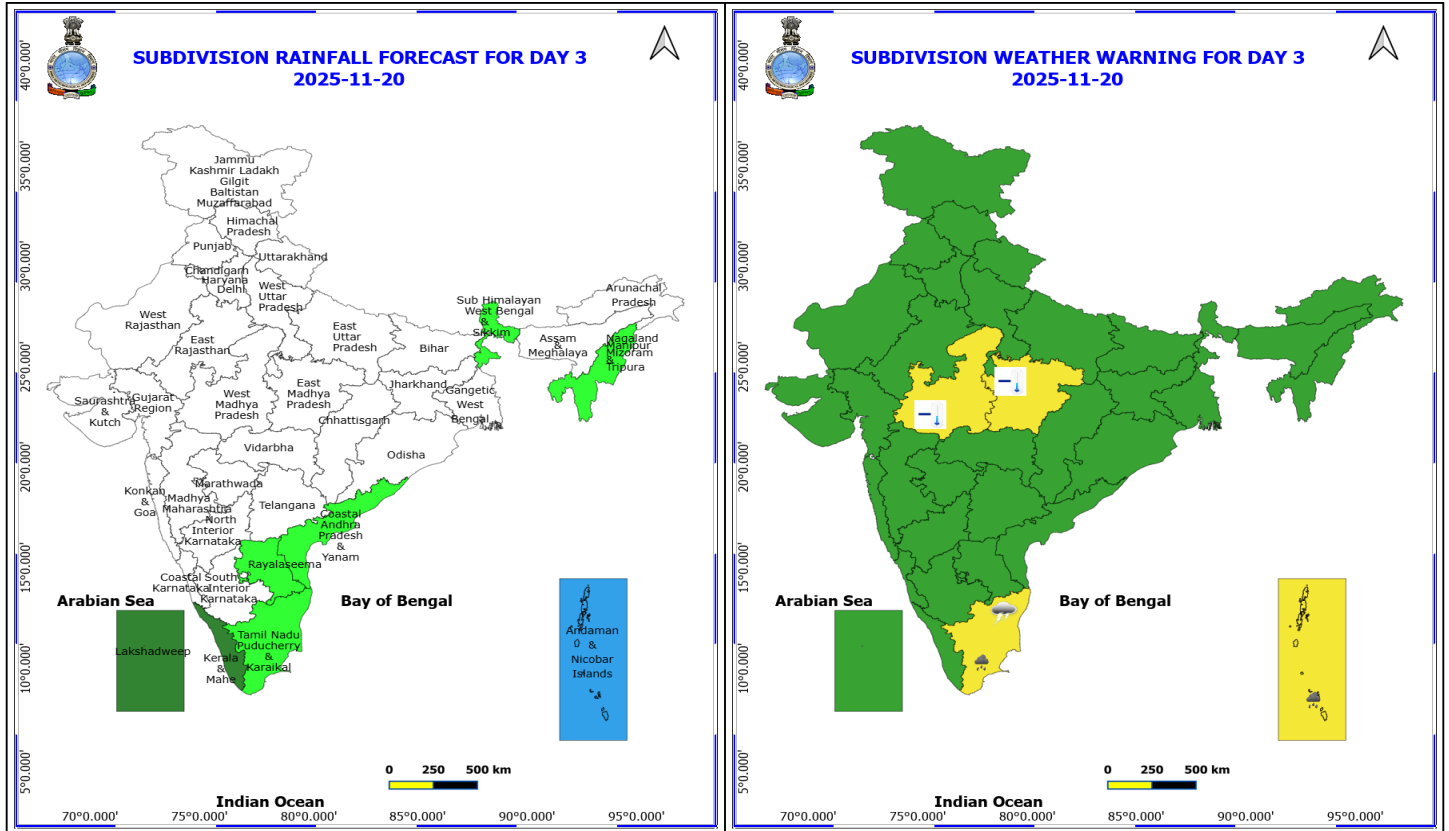
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Madhya Maharashtra and Madhya Pradesh.
- **Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail along and off south Kerala coast, adjoining Lakshadweep area, over Comorin area, Gulf of Mannar, over Andaman Sea, adjoining parts of southeast, eastcentral Bay of Bengal.

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20 November (Day 3)

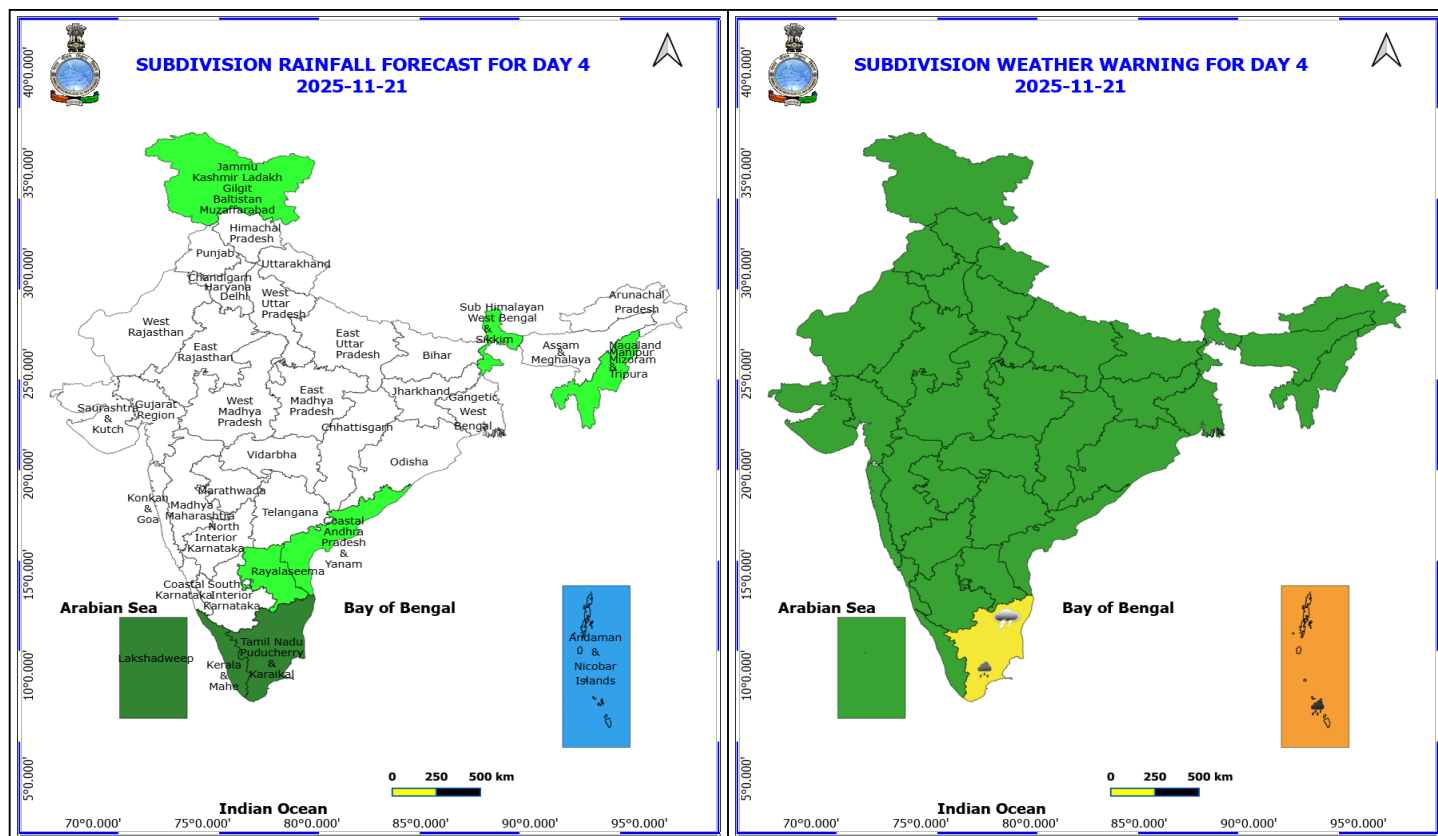
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Madhya Pradesh.
- **Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea, adjoining parts of southeast, eastcentral Bay of Bengal.

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21 November (Day 4)

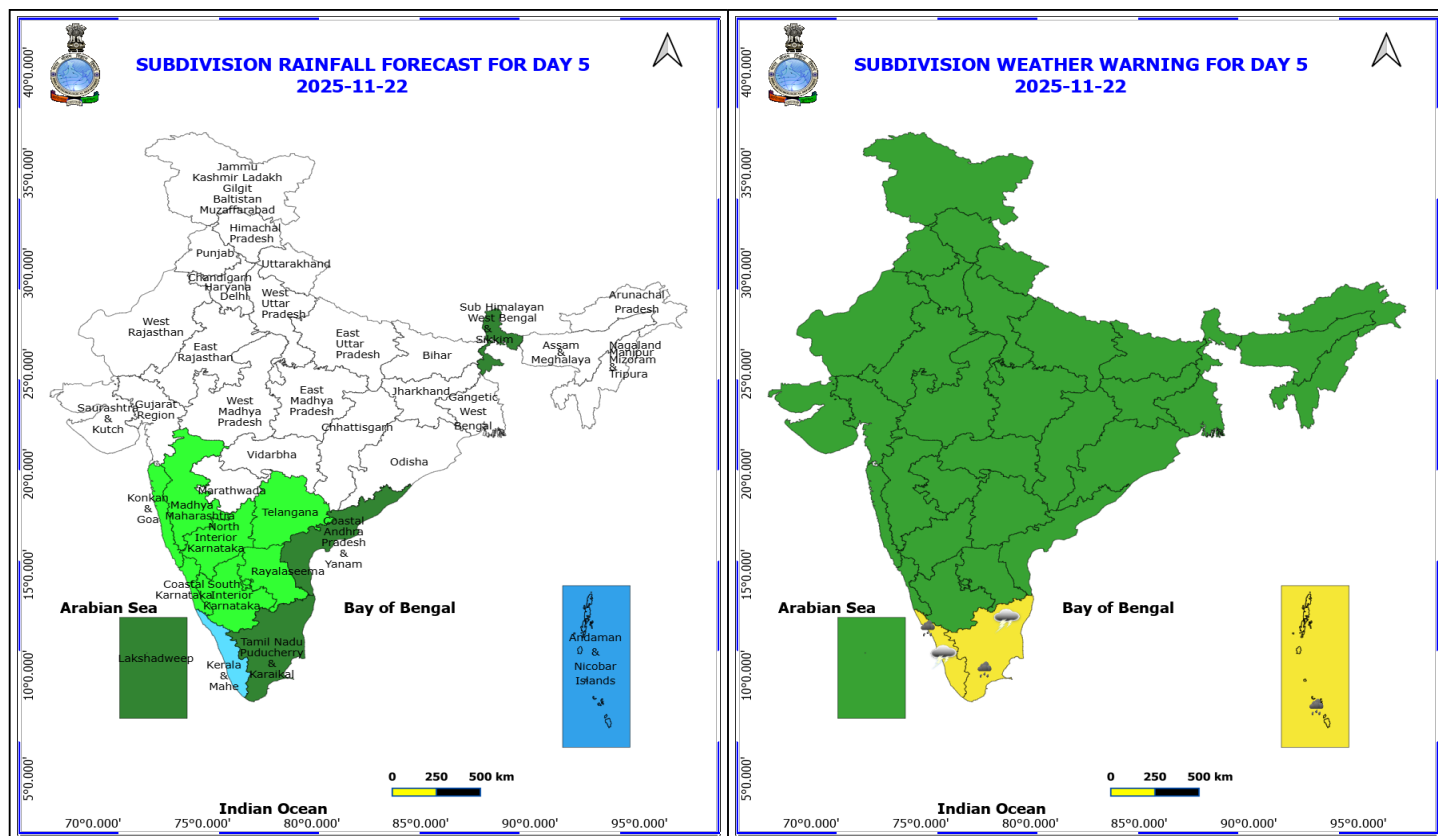
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Heavy Rainfall** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- **Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea, adjoining, some parts of southeast Bay of Bengal.
- **Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** will prevail over south Andaman Sea.

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22 November (Day 5)

❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.

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

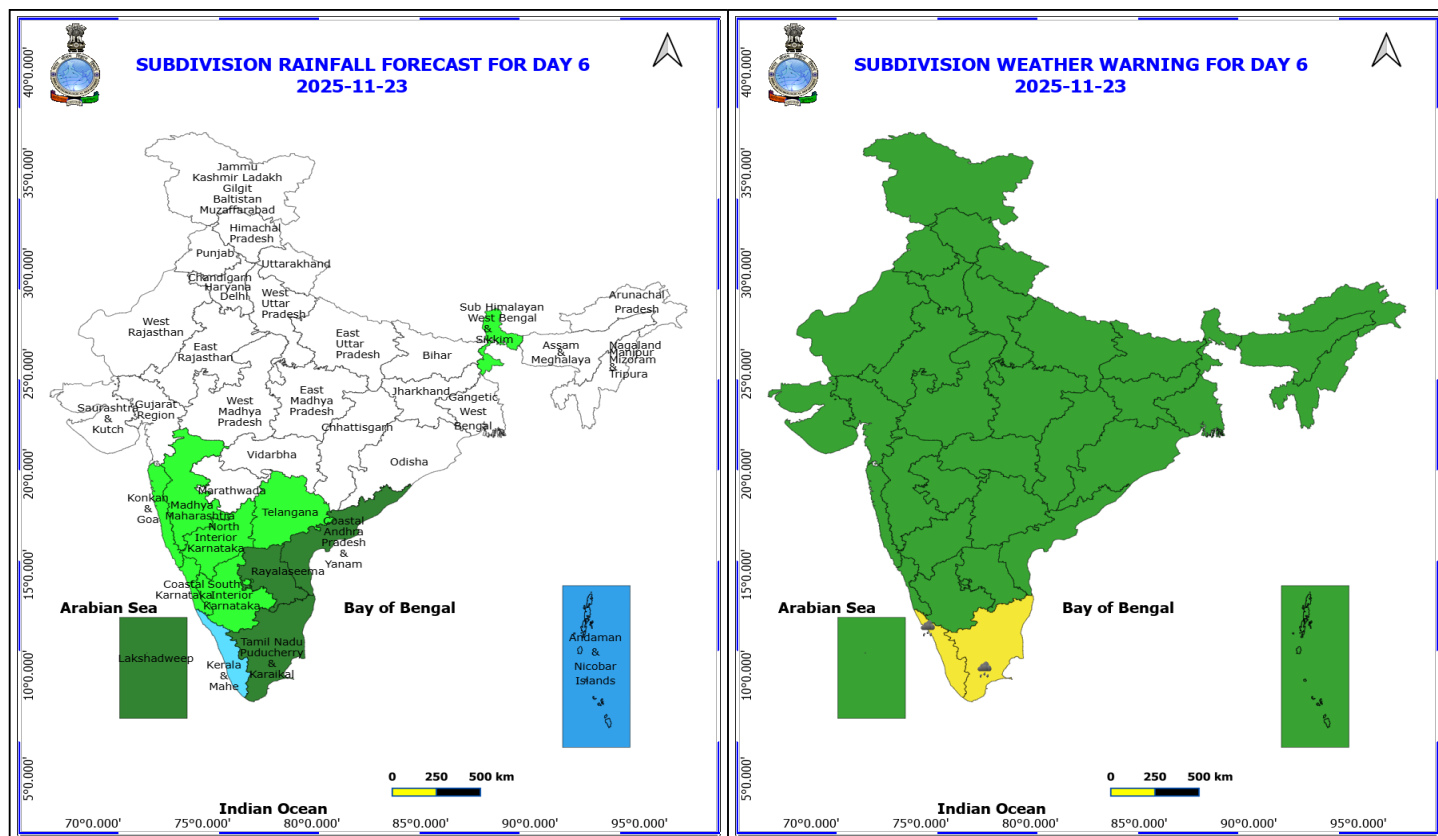
- **Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea, adjoining, most parts of southeast & adjoining southwest Bay of Bengal.
- **Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** will prevail over south Andaman Sea & adjoining southeast Bay of Bengal.

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23 November (Day 6)

❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.

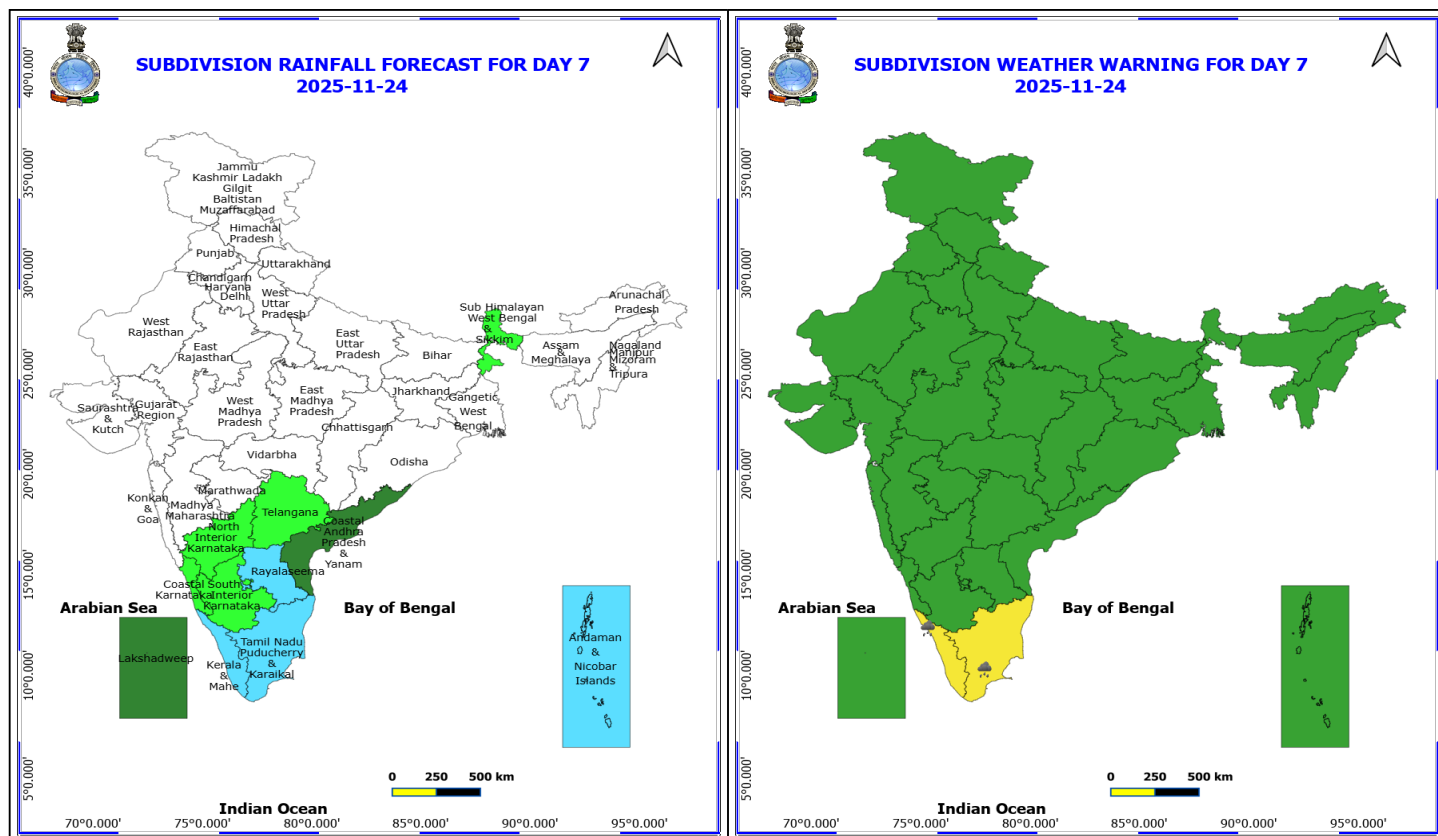
No Fishermen Warning

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24 November (Day 7)

❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.

No Fishermen Warning

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	18- Nov	19- Nov	20- Nov	21- Nov	22- Nov	23- Nov	24- Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	WS	FWS
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	ISOL	ISOL	ISOL	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	DRY	DRY	ISOL	ISOL	SCT	ISOL	ISOL
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	ISOL	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	ISOL	ISOL	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	ISOL	ISOL	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	SCT	SCT	SCT
29	TELANGANA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	SCT	ISOL	ISOL	ISOL	SCT	FWS
31	TAMILNADU & PUDUCHERRY	FWS	SCT	ISOL	SCT	SCT	SCT	FWS
32	COSTAL KARNATAKA	DRY	ISOL	DRY	DRY	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
35	KERALA	FWS	SCT	SCT	SCT	FWS	FWS	FWS
36	LAKSHDWEAP	FWS	FWS	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 2025-11-17

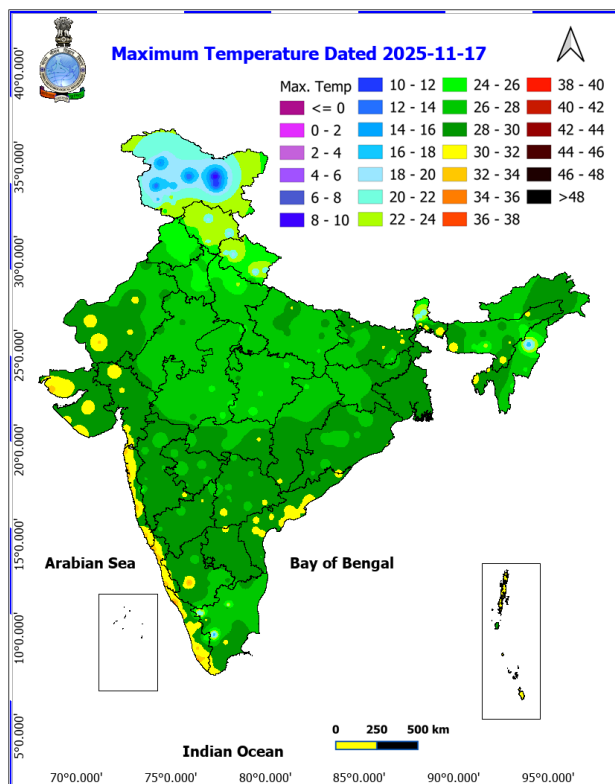


Fig. 2: Departure of Maximum Temp. Dated 2025-11-17

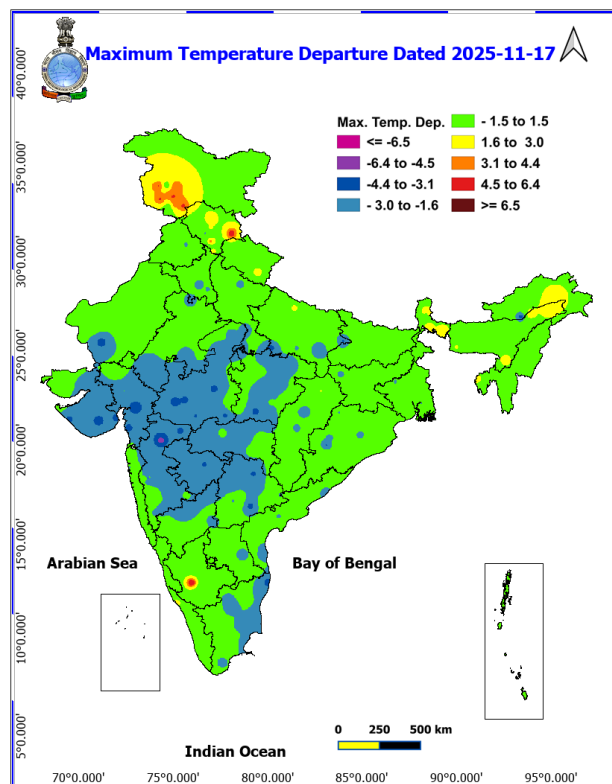


Fig. 3: Minimum Temperatures Dated 2025-11-18

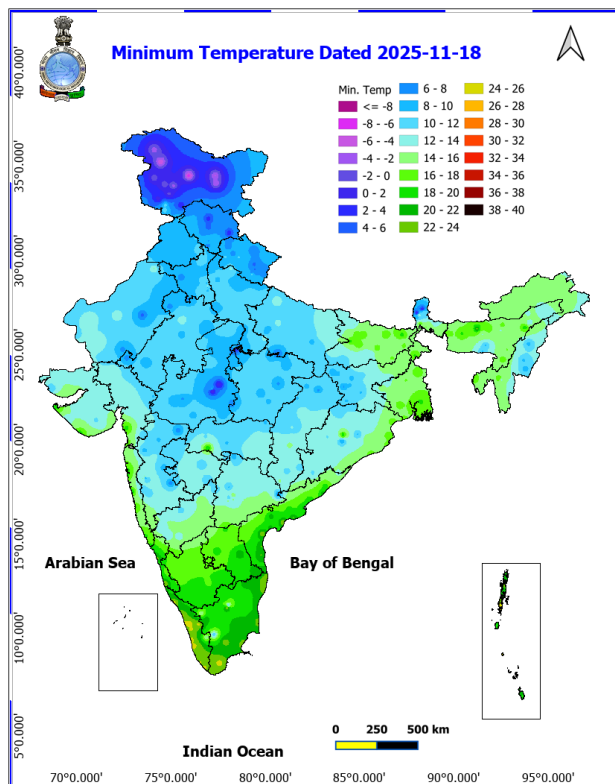
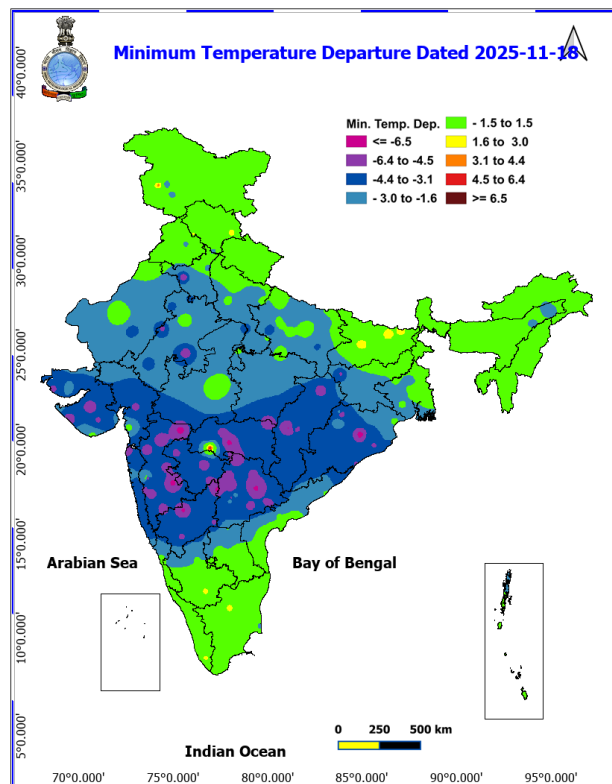
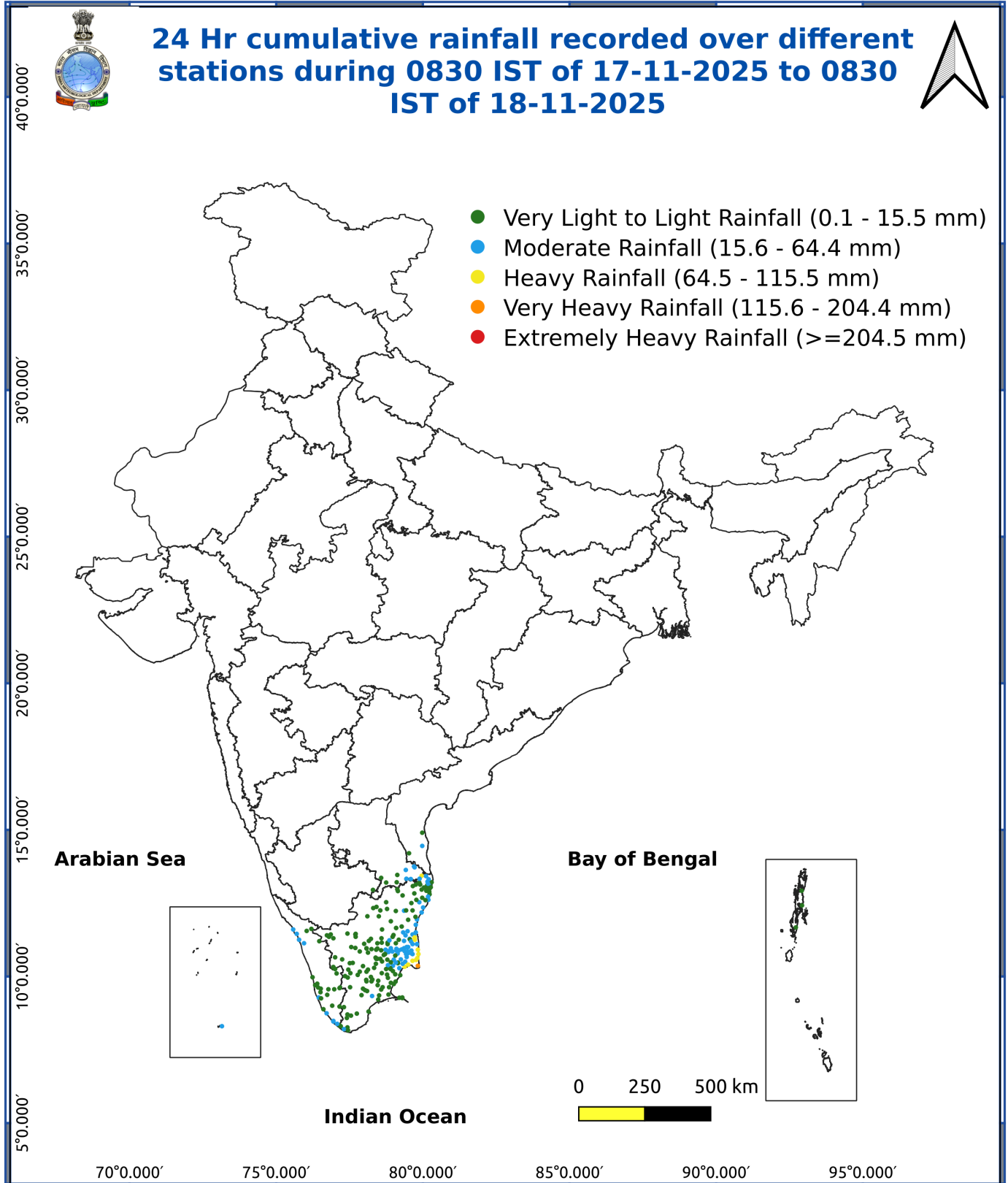


Fig. 4: Departure of Minimum Temp. Dated 2025-11-18





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Impact & Action Suggested due to

- Isolated **very Heavy rainfall** over Tamil Nadu and Andaman & Nicobar Islands on 18th November.

Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landslips/mudslips/landsinks/mudsinks.
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

Impact expected due to Cold Day/Severe Cold day conditions:

- Cold wave to severe cold wave likely** to prevail over some parts of West Madhya Pradesh on 18th 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.

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- Protect livestock from cold weather.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Heavy / Heavy to Very Heavy Rainfall

- In **Tamil Nadu**, keep the harvested produce of rice and groundnut crops in safe places. Make arrangements to drain out excess water from fields of rice, sugarcane, cotton, black gram, maize and vegetables and plantations of coconut, banana, cinnamon and black pepper. Provide support to banana plants with wooden poles to prevent them from falling.
- In **Kerala**, ensure adequate drainage facilities in fields of rice, vegetables and plantations of banana, coconut, cardamom and black pepper. Carry out propping in banana plants to prevent falling due to heavy rainfall and strong winds.
- In **Andaman and Nicobar Islands**, store the harvested produce of rice in well-covered elevated places to prevent moisture damage. Harvest matured vegetables to avoid damage and provide support to papaya plants with stakes to prevent lodging.

Livestock / Poultry / 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

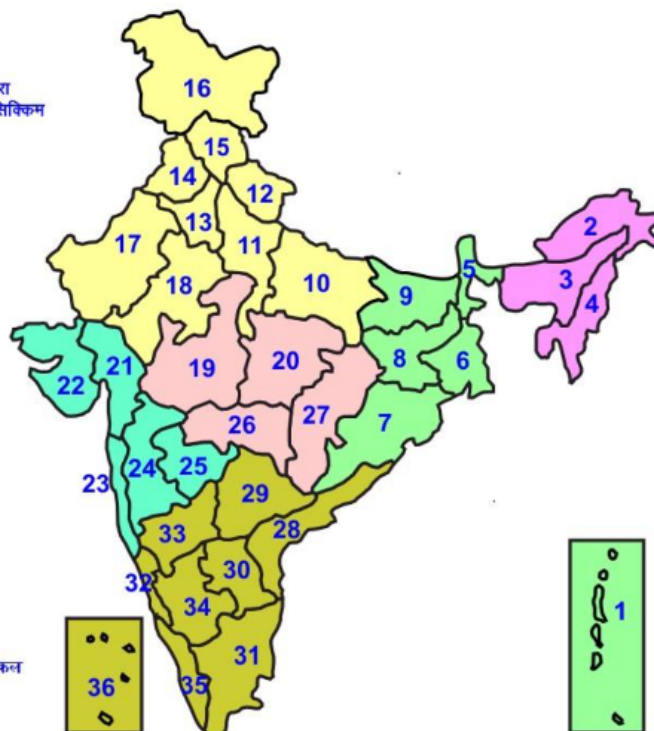
- In **Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Vidarbha and Telangana**, apply light and frequent irrigation to the standing crops in the evening to protect the crops from low temperature stress or cold injuries. Use mulching and cover vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature. Cover banana bunches with 6% perforated plastic bags for protection from low temperatures.

Livestock / Poultry / Fishery

- 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.

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. Marathwada
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"

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

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 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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