



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 18<sup>th</sup> November, 2025

Time of Issue: 1330 hours IST

**Subject: (i) Cold wave to severe cold wave conditions likely to prevail over some parts of Madhya Maharashtra and West Madhya Pradesh on 18<sup>th</sup> and cold wave conditions at isolated parts on 19<sup>th</sup> & 20<sup>th</sup>. Cold wave conditions at isolated parts also likely over East Madhya Pradesh during 18<sup>th</sup>-20th; Vidarbha, Marathwada, Telangana and Chhattisgarh on 18<sup>th</sup> and Madhya Maharashtra on 19th November.**

**(ii) Heavy rainfall very likely over Tamil Nadu during 18th -24th; over Andaman & Nicobar Islands during 19<sup>th</sup>-22<sup>nd</sup> and isolated very Heavy rainfall over Tamil Nadu on 18th and Andaman & Nicobar Islands on 21st November.**

**Realised weather during past 24 hours ending at 0830 hours IST of today, the 18<sup>th</sup> November, 2025:**

- ❖ Heavy to Very heavy rainfall observed at isolated places over Tamil Nadu.
- ❖ Cold wave to severe cold wave conditions prevailed over many pockets of Madhya Maharashtra, West Madhya Pradesh; cold wave conditions prevailed at some pockets of East Madhya Pradesh, isolated pockets of Telangana, Chhattisgarh and Jharkhand.
- ❖ Minimum Temperature were markedly below normal (-5.1°C or less) at many places over Konkan & Goa, Madhya Maharashtra, West Madhya Pradesh; at isolated places over Saurashtra & Kutch, Vidarbha, Telangana, Jharkhand, Chhattisgarh, and Odisha. (refer to ANNEXURE IV)

**Weather Systems, Forecast and Warnings (refer to ANNEXURE I & II):**

- ❖ Yesterday's Low-Pressure area over southwest Bay of Bengal and adjoining Sri Lanka moved west-northwestwards and lay over Comorin area and neighbourhood at 0830 hrs IST of today, the 18th November 2025. The associated upper air cyclonic circulation extends upto middle tropospheric levels. 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.

**Under the influence of these systems, the following weather is likely:**

- ❖ Light to moderate rainfall/thunderstorm at most/many places with isolated heavy rainfall very likely over Tamil Nadu during 18<sup>th</sup> -24<sup>th</sup>; over Kerala & Mahe on 18<sup>th</sup> and during 22<sup>nd</sup> - 24<sup>th</sup>; over Lakshadweep on 18<sup>th</sup> & 19<sup>th</sup>; and Andaman & Nicobar Islands on 19<sup>th</sup>, 20<sup>th</sup> & 22<sup>nd</sup> November; with isolated very Heavy rainfall over Tamil Nadu on 18<sup>th</sup> and Andaman & Nicobar Islands on 21<sup>st</sup> November.
- ❖ Thunderstorm with lightning very likely over Tamil Nadu during 18<sup>th</sup> -22<sup>nd</sup>; over Kerala & Mahe on 18<sup>th</sup>, 19<sup>th</sup> & 22<sup>nd</sup>; over Coastal Andhra Pradesh & Yanam and Rayalaseema and Lakshadweep on 18<sup>th</sup> & 19<sup>th</sup> November.

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

- ❖ Minimum temperatures are in the range of less than 6°C at some places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated over Himachal Pradesh, Uttarakhand; in the range of 7-10°C at a few places over Punjab, Haryana Chandigarh & Delhi, East Madhya Pradesh, at isolated places over north Uttar Pradesh, Rajasthan, Jharkhand, Odisha, Chhattisgarh, Gangetic West Bengal, Uttarakhand, Telangana, Nagaland, Manipur, Meghalaya.
- ❖ The lowest minimum temperature of 5.8°C is reported at Rajgarh (West Madhya Pradesh) over the plains of India. (refer to ANNEXURE IV)

#### **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 2-4°C thereafter during subsequent 4days.
- ❖ Rise in minimum temperature likely by 2-3°C 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 18<sup>th</sup>; **cold wave conditions** likely to prevail over isolated parts West Madhya Pradesh on 19<sup>th</sup> & 20<sup>th</sup>, over East Madhya Pradesh during 18<sup>th</sup> -20<sup>th</sup>; Vidarbha, Marathwada, Telangana and Chhattisgarh on 18<sup>th</sup>; Madhya Maharashtra on 19<sup>th</sup> November.

#### **Fisherman Warning:**

Fishermen are advised not to venture into the following areas during 18<sup>th</sup> November to 23<sup>rd</sup> November:

##### ➤ **Arabian Sea:**

Along and off south Kerala coast adjoining Lakshadweep area, over Comorin area on 18th, 19th November. Along and off Tamil Nadu, south Andhra Pradesh coasts & adjoining sea areas during 18th November; over Gulf of Mannar on 18th, 19th November; over Andaman Sea during 19th to 23rd November; some parts of southeast Bay of Bengal during 19th to 22nd November, most parts of southeast Bay of Bengal on 22nd November; few parts of eastcentral Bay of Bengal on 19th and 21st November; some parts of southwest Bay of Bengal on 22nd November.

#### **ii) Weather conditions and forecast over Delhi/NCR during 18<sup>th</sup> -21<sup>st</sup> November, 2025 (ANNEXURE III)**

**For more details, kindly refer National Weather Bulletin:**

[https://mausam.imd.gov.in/responsive/all\\_india\\_forcast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php)

**For District wise warnings refer:** <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

**For Fishermen warning refer** <https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php>

**Significant rainfall recorded (in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today):**

- ❖ **Tamil Nadu:** Vedaranyam 16, Oothu 14, Nalumukku 13, Kodiayakarai 13, Thirukuvalai 12, Kakkachi 12, Nagapattinam 11, Valankanni 11, Thalaignayer 9, Tirupoondi 9, Manjolai 9, Thiruthuraipoondi 9, Karaikal 8, Adiramapattinam 7, Sirkali 7, Muthupet 7, Karaika 7, Tiruvarur 6.
- ❖ **Rayalaseema:** Tada (dist Tirupati) 11, Satyavedu (dist Tirupati) 9, Nagari (dist Chittoor) 4, Tirupati Aero (dist Tirupati) 4
- ❖ **Kerala:** Kunnamangalam (dist Kozhikode) 8.

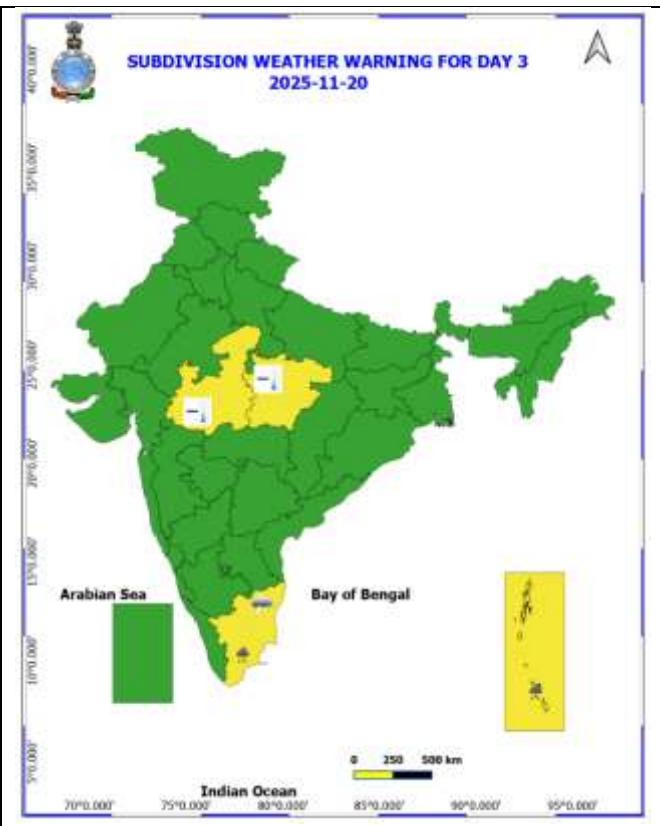
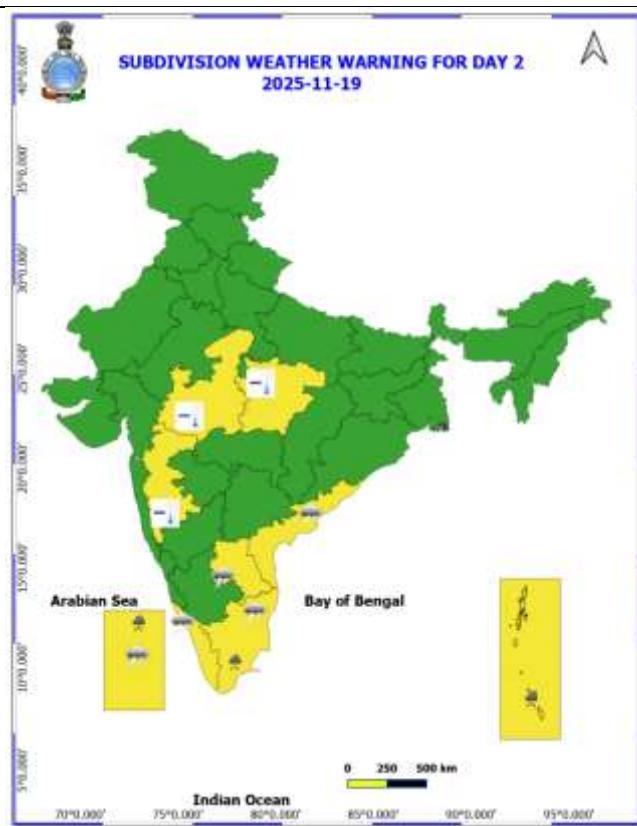
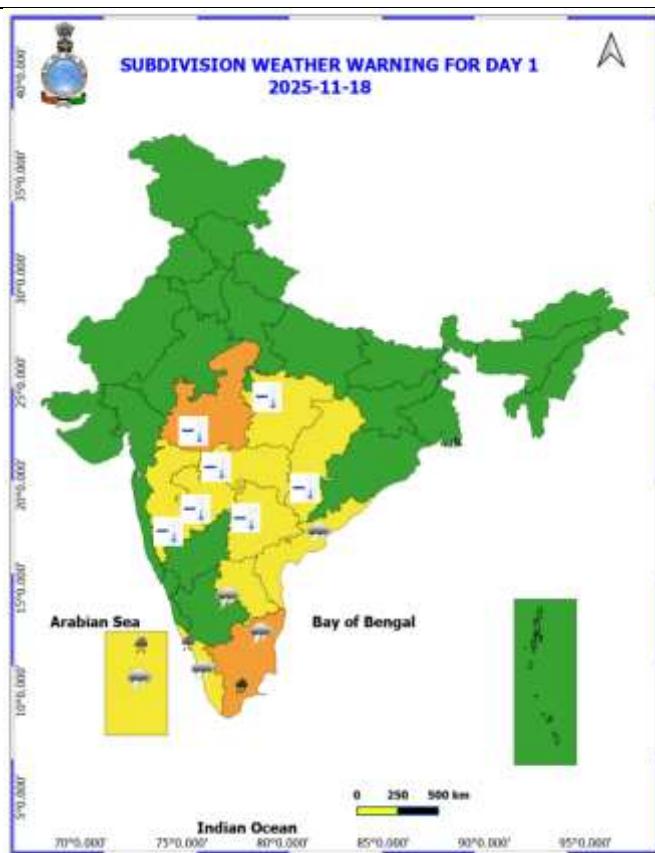
**ANNEXURE I**

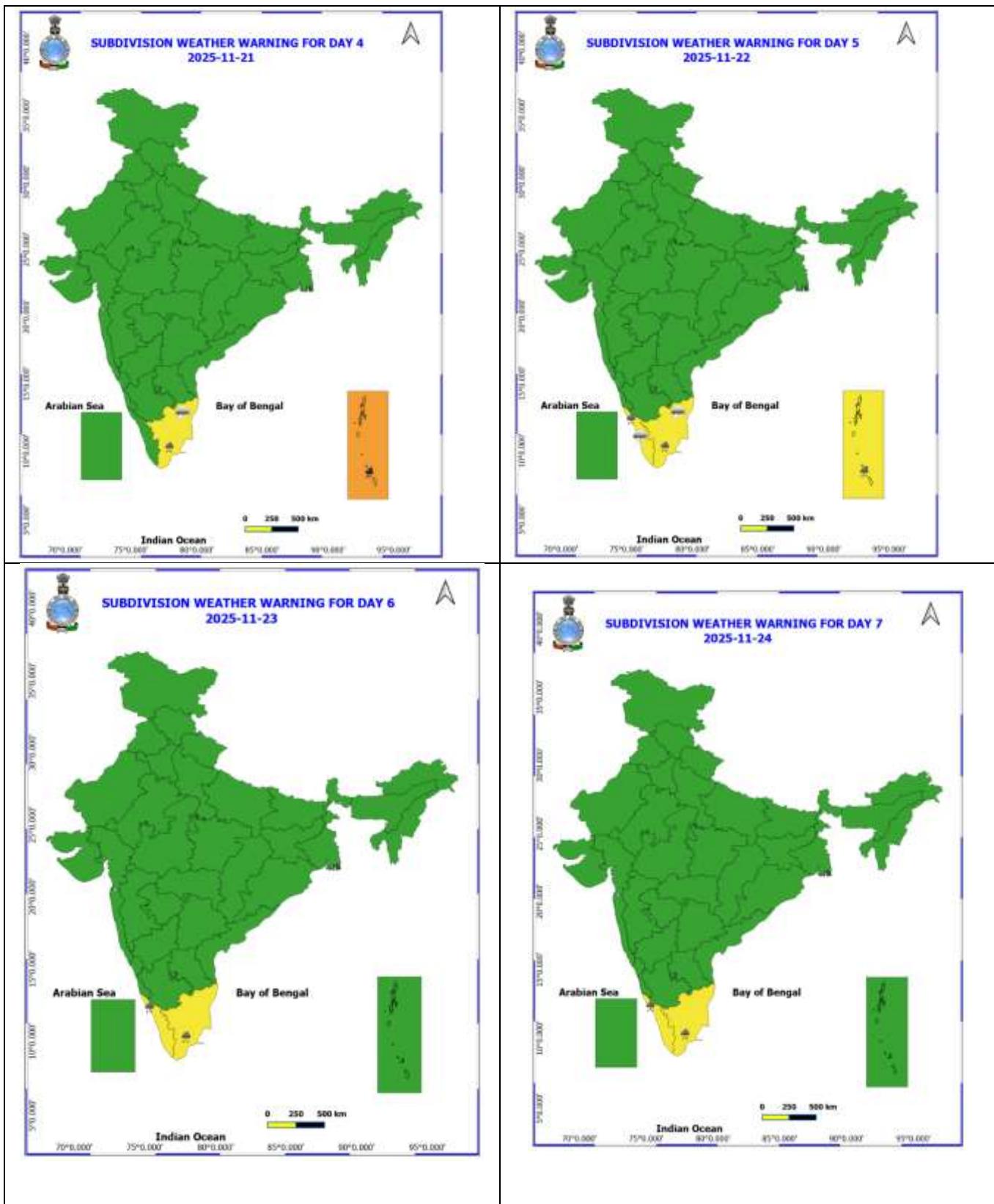
**Table-1**  
**7 Days Rainfall Forecast**

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	W	W	W	W	W	W	FWS
2	ARUNACHAL PRADESH	DRY						
3	ASSAM & MEHGHALAYA	DRY						
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	DRY	DRY	ISOL	ISOL	SCT	ISOL	ISOL
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	DRY						
8	JHARKHAND	DRY						
9	BIHAR	DRY						
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	DRY						
12	UTTARAKHAND	DRY						
13	HARYANA, CHANDIGARH & DELHI	DRY						
14	PUNJAB	DRY						
15	HIMACHAL PRADESH	DRY						
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	DRY						
19	WEST MADHYA PRADESH	DRY						
20	EAST MADHYA PRADESH	DRY						
21	GUJRAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
25	MARATHWADA	DRY						
26	VIDARBHA	DRY						
27	CHHATTISGARH	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 AND MAHE	FWS	SCT	SCT	SCT	FWS	FWS	FWS
36	LAKSHADWEEP	FWS	FWS	SCT	SCT	SCT	SCT	SCT

- As the lead period increases forecast accuracy decrease.

ANNEXURE II





- Action may be taken based on ORANGE AND REDCOLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Detailed district wise Multi Hazard weather warning for next five days available at  
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

## Weather forecast over Delhi/NCR during 18<sup>th</sup> to 21<sup>st</sup> November 2025

### Past Weather:

There has been a rise in minimum temperatures by 1.0°C and a fall in maximum temperatures by 1.0°C during the past 24 hours over Delhi. The maximum and minimum temperatures over Delhi were around 24 to 27 °C and 9 to 11 °C, respectively. The minimum temperatures were below normal (-1.4 to -3.4°C) at a few places & appreciably below normal (-3.1 to -5.0°C) at many places over Delhi. The maximum temperatures were below normal at many places & appreciably below normal (-3.1 to -5.0°C) at isolated places over Delhi. Mainly clear sky conditions with predominant surface wind from the southwest direction, with a wind speed up to 10 kmph, prevailed during the past 24 hours. Mainly clear sky conditions with calm wind in early morning hours, as gradually increasing up to 08 kmph from the west direction prevailed over the region in the forenoon today.

### Weather Forecast:

**18.11.2025:** Mainly clear sky. Smog/Mist during the night. The maximum temperatures are likely to be in the range of 24 to 26°C. The maximum temperature will be below normal (-1.8 to -3.8°C) over most places & appreciably below normal (-3.1 to -5°C) at isolated places. The predominant surface wind is likely to be from the northwest direction with a wind speed of up to 10 kmph during the afternoon hours. The wind speed will decrease, becoming less than 05 kmph from the north-northwest direction during the evening and night.

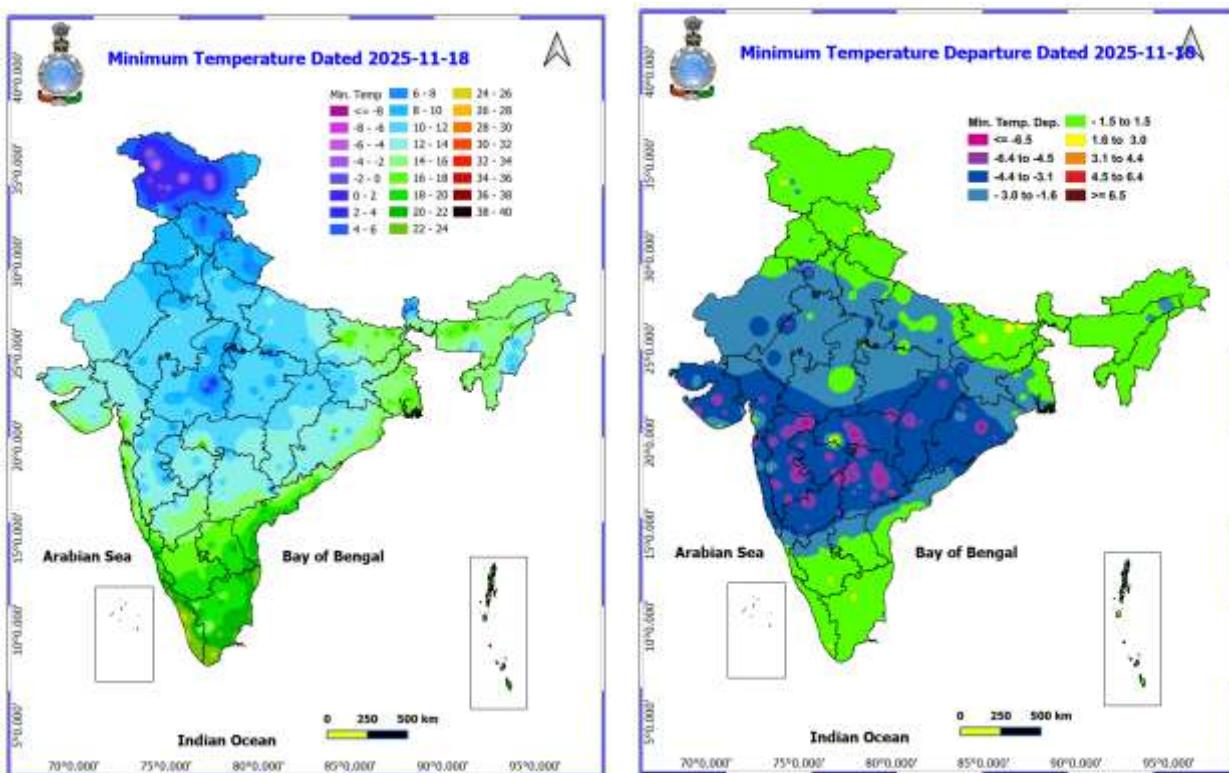
**19.11.2025:** Partly cloudy sky. Shallow fog at most places and moderate fog at isolated places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 25 to 27°C and 09 to 11°C respectively. The minimum temperatures will be appreciably below normal (-3.1 to -5.0°C) at many places & markedly below normal (-5.1 & above) at isolated places, and the maximum temperature will be below normal (-1.6 to -3°C) over most places & appreciably below normal (-3.1 to -5°C) at isolated places. The predominant surface wind is likely to be from the north-northwest direction with calm wind in the early morning hours and gradually increasing to up to 05 kmph during morning hours. The wind speed will gradually increase, reaching up to 08 kmph from the north direction in the afternoon. The wind speed will decrease, becoming less than 05 kmph from the northeast direction during the evening and night.

**20.11.2025:** Mainly clear sky. Shallow fog at most places and moderate fog at isolated places during the morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 26 to 28°C and 09 to 11°C respectively. The minimum temperatures will be appreciably below normal (-3.1 to -5.0°C) at many places & markedly below normal (-5.1 & above) at isolated places, and the maximum temperature will be below normal (-1.6 to -3°C) over most places & appreciably below normal (-3.1 to -5°C) at isolated places. The predominant surface wind is likely to be calm during the morning hours. The predominant surface wind is likely to be from the north direction with calm wind in the afternoon hours as it gradually increases, reaching up to 05 kmph during the afternoon. The wind speed will decrease, becoming less than 05 kmph from the northeast direction during the evening and night.

**21.11.2025:** Mainly clear sky. Shallow fog at most places and moderate fog at isolated places during the morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 26 to 28°C and 10 to 12°C respectively. The minimum temperatures will be appreciably below normal (-3.1 to -5.0°C) at many places & markedly below normal (-5.1 & above) at isolated places, and the maximum temperature will be below normal (-1.6 to -3°C) over most places & appreciably below normal (-3.1 to -5°C) at isolated places. The predominant surface wind is likely to be calm during the morning hours. The predominant surface wind is likely to be from the north direction with calm wind in the afternoon hours as it gradually increases, reaching up to 05 kmph

during the afternoon. The wind speed will decrease, becoming less than 05 kmph from the north direction during the evening and night.

#### ANNEXURE IV



#### Impact & Action Suggested due to

- ❖ Isolated **very Heavy rainfall** over Tamil Nadu and Andaman & Nicobar Islands on 18<sup>th</sup> 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 kutch roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landslides/mudslides/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 18<sup>th</sup> 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 Woolen 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 likely impact of Heavy Rainfall**

#### **Agromet advisories for likely impact of Heavy / Heavy to Very Heavy Rainfall / Cold Wave**

- 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 & abbreviations:**

- ❖ **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.
- ❖ **Region wise classification of meteorological Sub-Divisions:**
  - **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
  - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
  - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
  - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
  - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
  - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

## LEGENDS

1. अंडमान और निकोबार द्वीपसमूह

2. अरुणाचल प्रदेश

3. असम और मेघालय

4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा

5. उप-हिमालयी पश्चिम बंगाल और सिक्किम

6. गंगीय पश्चिम बंगाल

7. ओडिशा

8. झारखण्ड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखण्ड

13. हरियाणा, चंडीगढ़ और दिल्ली

14. पंजाब

15. हिमाचल प्रदेश

16. जम्मू और कश्मीर और लद्दाख

17. पश्चिम राजस्थान

18. पूर्वी राजस्थान

19. पश्चिम मध्य प्रदेश

20. पूर्वी मध्य प्रदेश

21. गुजरात

22. सौराष्ट्र

23. कोकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुदुचेरी और कराईकल

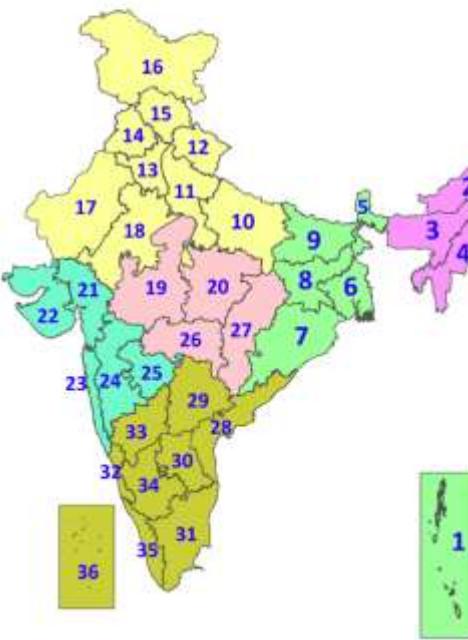
32. तटीय कर्नाटक

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक दक्षिणी कर्नाटक

35. केरल और माहे

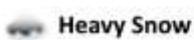
36. लक्षद्वीप



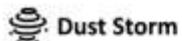
1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & Delhi
14. 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. Vidarbha
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)

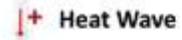
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)		
51-75	Fairly Widespread (FWS/Many Places)		
26-50	Scattered (SCT/A Few Places)		
1-25	Isolated (ISOL)		



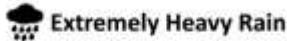
### COLOUR CODED WARNING



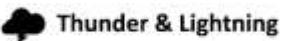
No Warning (No Action)



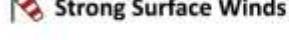
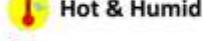
Watch (Be Aware)



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



## DEFINITION/CRITERIA

### Rain/ Snow \*

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

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  $\geq 6.5^{\circ}\text{C}$

### Heat Wave

(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  $\geq 37^{\circ}\text{C}$

### Warm Night

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  $>6.4^{\circ}\text{C}$

### Cold Wave

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  $\leq 15^{\circ}\text{C}$

### Cold Day

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  $\leq -6.5^{\circ}\text{C}$

### Fog

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

### Thunderstorm

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

### Dust/Sand Storm

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

### Frost

Ice deposits on ground

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

### Squall

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

**Moderate:** Wind speed 52-61 kmph

**Severe:** Wind speed 62-87 kmph

**Very Severe:** Wind speed  $>87$  kmph

### Sea State

Effect of various waves in the sea over specific area

**Rough to very rough:** Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

**High to very high:** Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre

**Phenomenal:** Wind speed  $>117$  kmph ( $>63$  knots) & Wave height  $>14$  metre

### Cyclone

**Cyclonic Storm:** Wind speed 62-87 kmph (34-47 knots)

**Severe Cyclonic Storm:** Wind speed 88-117 kmph (48-63 knots)

**Very Severe Cyclonic Storm:** Wind speed 118-165 kmph (64 - 89 knots)

**Extremely Severe Cyclonic Storm:** Wind speed 166-220 kmph (90 - 119 knots)

**Super Cyclone Strom:** Wind speed  $>220$  kmph ( $>119$  knots)

\* Red colour warning does not mean "Red Alert", Red colour 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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