



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 17th November, 2025

Time of Issue: 1325 hours IST

Subject: (i) Cold wave to severe cold wave conditions likely to prevail over some parts of West Madhya Pradesh on 18th & 19th and cold wave conditions over isolated parts on 20th & 21st November; cold wave conditions likely to prevail over isolated parts of East Rajasthan and East Madhya Pradesh during 18th -20th; over Chhattisgarh, Marathwada, Telangana and Madhya Maharashtra on 18th & 19th; over Vidarbha on 18th November.

(ii) Heavy to very heavy rainfall likely over Tamil Nadu on 17th; over Andaman & Nicobar Islands during 20th -22nd November.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 17th November, 2025:

- ❖ **Cold wave to severe cold wave conditions prevailed over isolated/some pockets of East Rajasthan, West Madhya Pradesh, Chhattisgarh and Vidarbha; cold wave conditions prevailed at isolated pockets of East Madhya Pradesh, Haryana Chandigarh & Delhi, Uttar Pradesh, Odisha and Jharkhand.**
- ❖ **Minimum Temperature are markedly below normal (-1.6°C to -3.0°C) at isolated places over Odisha, Jharkhand, Haryana-Chandigarh-Delhi, East Rajasthan, Marathwada, Vidarbha and Chhattisgarh. appreciably below normal (-5.0°C to -3.1°C) at many places over Telangana. markedly below normal (< -5.0°C) at most places over West Madhya Pradesh and East Madhya Pradesh. (refer to ANNEXURE IV)**
- ❖ **Moderate fog conditions:** at isolated places over Assam & Meghalaya
- ❖ **Shallow fog conditions:** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Bihar and East Uttar Pradesh

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

- ❖ Yesterday's Low-Pressure area over southwest Bay of Bengal and adjoining Sri Lanka persisted at 0830 hrs IST of today, the 17th November 2025. The associated upper air cyclonic circulation extends upto upper 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 18th -23rd; over Kerala & Mahe during 17th - 20th and on 22nd & 23rd; over Coastal Andhra Pradesh & Yanam, Rayalaseema on 17th & 18th and Andaman & Nicobar Islands during 19th November; with isolated **very Heavy rainfall** over Tamil Nadu on 17th; over Andaman & Nicobar Islands during 20th -22nd November.
- ❖ Thunderstorm with lightning very likely over Tamil Nadu during 17th -21st; over Kerala & Mahe during 17th - 19th; over Coastal Andhra Pradesh & Yanam and Rayalaseema on 17th & 18th; over Andaman & Nicobar Islands 18th -23rd 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 many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Himachal Pradesh, Uttarakhand; in the **range of 7-10°C** at many places over Punjab; at a few places over East Rajasthan, Haryana Chandigarh & Delhi, East Madhya Pradesh; at isolated places over north Uttar Pradesh, Madhya Maharashtra West Madhya Pradesh, Chhattisgarh.
- ❖ Minimum temperatures are below normal by 2-4°C over many parts of northwest, central, east and north peninsular India.
- ❖ **The lowest minimum temperature of 5.0°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 plains of northwest India, central, east and north Peninsular India during next two days and rise in minimum temperature by 2-3°C over Northwest, Central and east India thereafter.
- ❖ **Cold wave to severe cold wave conditions** likely to prevail over some parts of West Madhya Pradesh on 18th & 19th and cold wave conditions over isolated parts on 20th & 21th November; **cold wave conditions** likely to prevail over isolated parts of East Rajasthan and East Madhya Pradesh during 18th -20th; over Chhattisgarh, Marathawada, Telangana and Madhya Maharashtra on 18th & 19th; over Vidarbha on 18th November.
- ❖ **Shallow to moderate fog conditions** likely over Northeast India during the week.

Fisherman Warning:

Fishermen are advised not to venture into the following areas during 17th November to 22nd November:

➤ Arabian Sea:

Along and off south Kerala coast adjoining Lakshadweep area, over Comorin area on 17th, 18th November.

Along and off Tamil Nadu, south Andhra Pradesh coasts & adjoining sea areas during 17th November; over Gulf of Mannar on 17th, 18th November; over Andaman Sea during 18th to 22nd November; some parts of southeast Bay of Bengal during 19th to 22nd November; some parts of eastcentral Bay of Bengal on 19th and 20th November; some parts of westcentral Bay of Bengal on 20th November.

ii) Weather conditions and forecast over Delhi/NCR during 17th -20th November, 2025 (ANNEXURE III)

For more details, kindly refer National Weather Bulletin:

https://mausam.imd.gov.in/responsive/all_india_forecast_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):

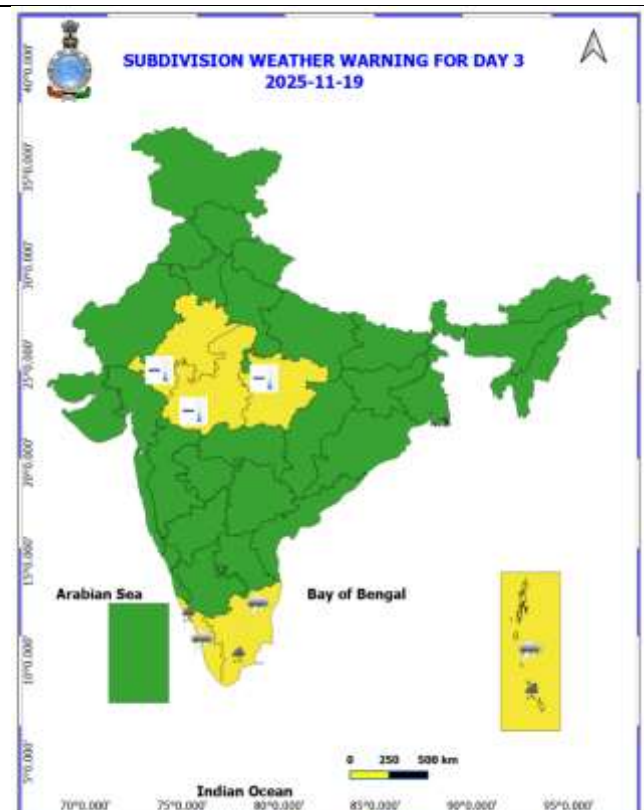
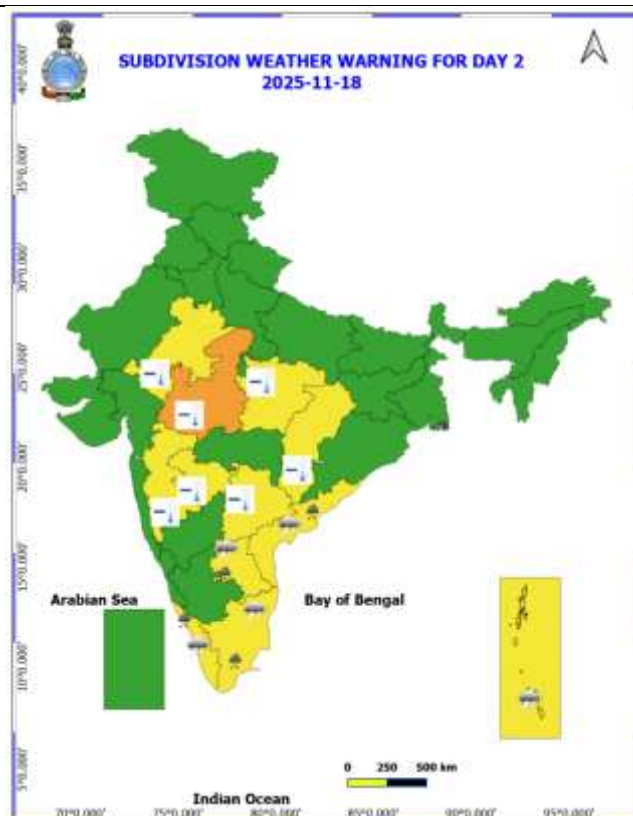
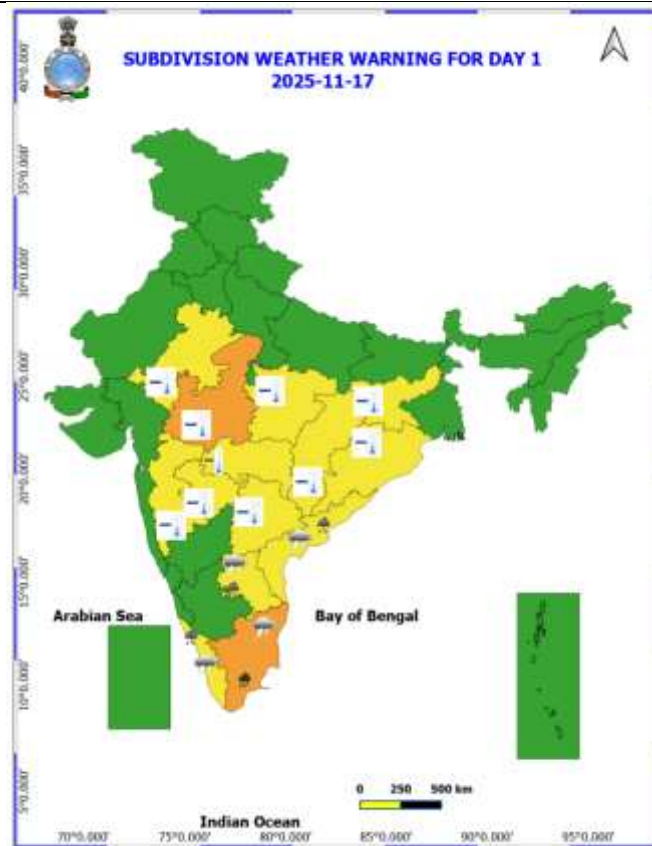
Tamil Nadu, Puducherry & Karaikal: Kodiayakarai (dist Nagapattinam) 12; Sembanarkoil PWD (dist Mayiladuthurai) 9; Thangachimadam (dist Ramanathapuram) 8; Vedaranyam (dist Nagapattinam), Thalaigaiyur (dist Nagapattinam) 7 Each; Kollidam (dist Mayiladuthurai), Sirkali (dist Mayiladuthurai), Tarangambadi (dist Mayiladuthurai), Pamban (dist Ramanathapuram) 6 Each; Mayiladuthurai AWS (dist Mayiladuthurai), Mayiladuthurai (dist Mayiladuthurai), Rameswaram (dist Ramanathapuram), Nannilam (dist Tiruvarur), Periya Kalapet ARG (dist Puducherry), Tirupoondi (dist Nagapattinam) 5 Each; Cuddalore (dist Cuddalore), Karaikal (dist Karaikal), Puducherry (dist Puducherry), Tiruvarur (dist Tiruvarur), Annamalai Nagar (dist Cuddalore), Collectorate (dist Cuddalore) 4 Each; Vedharanyam AWS (dist Nagapattinam), Chidambaram (dist Cuddalore), Parangipettai (dist Cuddalore), Nagapattinam (dist Nagapattinam), Kodavasal (dist Tiruvarur), Marakkanam (dist Villupuram), Bhuvanagiri (dist Cuddalore), Src Kudithangi (dist Cuddalore), Vanamadevi (dist Cuddalore), Velankanni (dist Nagapattinam) 3 Each; K.m.koil (dist Cuddalore), Cheyyur (dist Chengalpattu), Mannargudi (dist Tiruvarur), Needamangalam (dist Tiruvarur), Pandavaiyar Head (dist Tiruvarur), Vanur (dist Villupuram), Aduthurai AWS (dist Thanjavur), Panruti (dist Cuddalore), Manalmedu (dist Mayiladuthurai), Mandapam (dist Ramanathapuram), Manjalaru (dist Thanjavur), Lalpet (dist Cuddalore), Kothavacherry (dist Cuddalore), Vadakuthu (dist Cuddalore), Thirukuvalai (dist Nagapattinam), Rscl-2 Valavanur (dist Villupuram), Oothu (dist Tirunelveli) 2 Each;

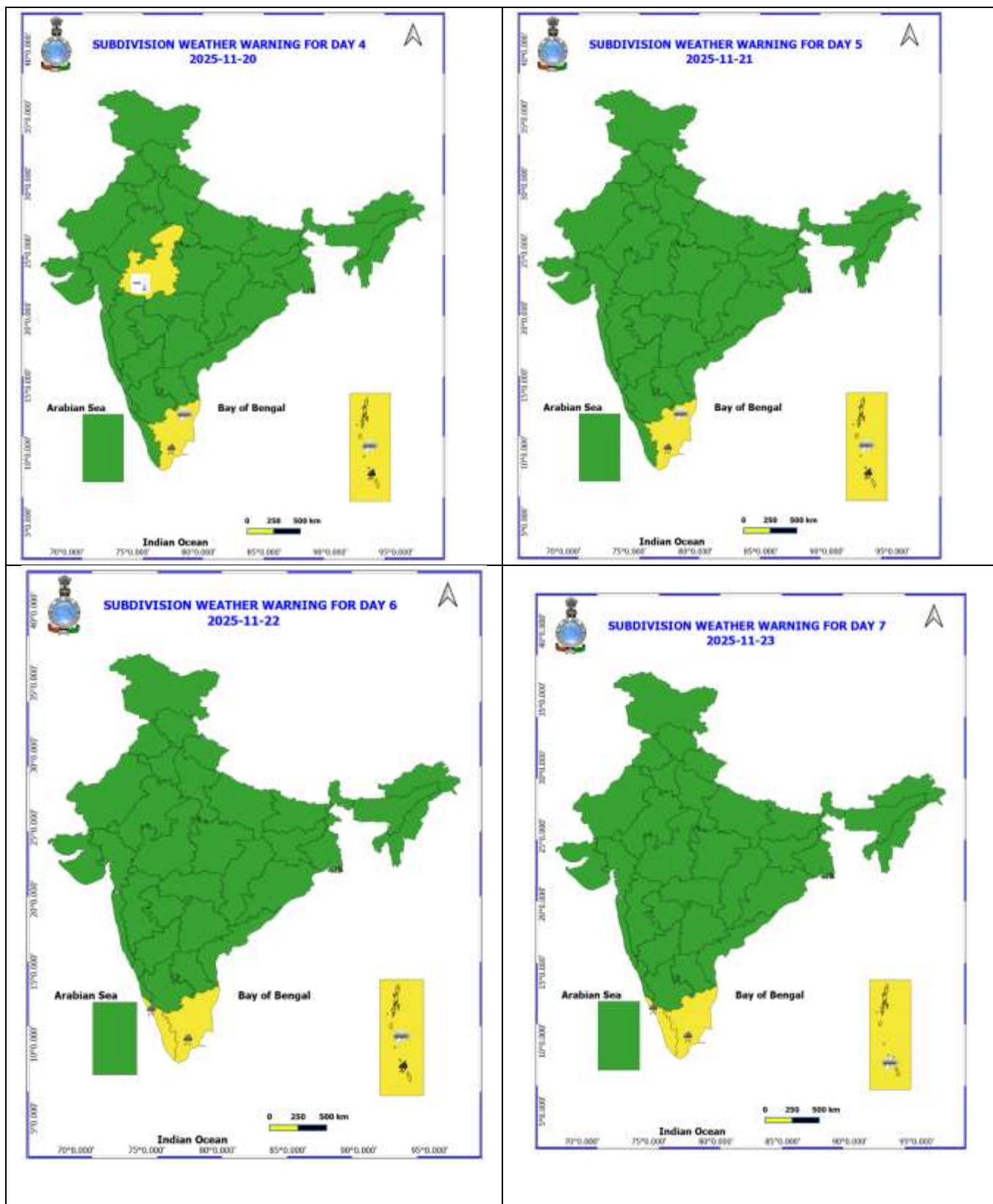
Kerala & Mahe: Konni (dist Pathanamthitta) 4; Piravam (dist Ernakulam), Koothattukulam AWS (dist Ernakulam) 3 Each; Ranni AWS (dist Pathanamthitta) 2.

ANNEXURE I

Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	16- Nov	17- Nov	18- Nov	19- Nov	20- Nov	21- Nov	22- Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
3	ASSAM & MEHGHALAYA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	DRY	DRY	DRY	DRY	ISOL	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, CHANDIGARH & 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	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	SCT	SCT	ISOL	ISOL	SCT
31	TAMILNADU & PUDUCHERRY	ISOL	SCT	SCT	SCT	ISOL	SCT	SCT
32	COSTAL KARNATAKA	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA AND MAHE	SCT	SCT	FWS	FWS	FWS	SCT	SCT
36	LAKSHADWEEP	SCT	SCT	SCT	SCT	SCT	SCT	SCT

- As the lead period increases forecast accuracy decrease.





- 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 districtwise MultiHazard weather warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 17th to 20th November 2025**Past Weather:**

There has been a fall in minimum temperatures by 1.0°C and a rise in maximum temperatures by 1.0°C during the past 24 hours over Delhi. The maximum and minimum temperatures over Delhi were around 25 to 27 °C and 09 to 11°C respectively. The minimum temperatures were below normal (-1.6 to -3.0°C) at isolated 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 west direction with a wind speed up to 14 kmph prevailed during the past 24 hours. Mainly clear sky conditions with calm wind in early morning hours and gradually increasing up to 08 kmph from the west direction prevailed over the region in the forenoon today.

Weather Forecast:

17.11.2025: Mainly clear sky. mist/haze during the night. The maximum temperatures are likely to be in the range of 25 to 27°C. The maximum temperature will be below normal (-0.8 to -2.8°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 north direction with a wind speed of up to 15 kmph during the afternoon hours. The wind speed will decrease, becoming less than 05 kmph from the northeast direction during the evening and night.

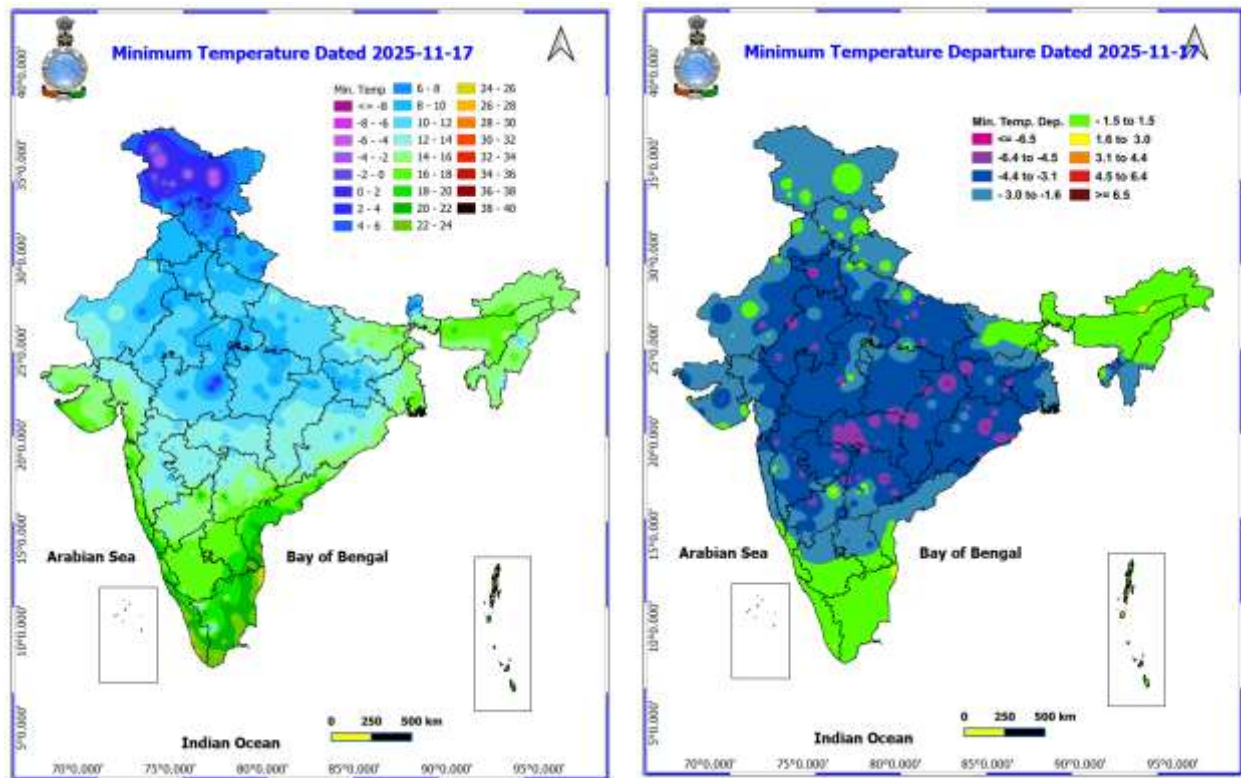
18.11.2025: Partly cloudy sky. mist/shallow fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 25 to 27°C and 09 to 11°C respectively. The minimum temperatures will be appreciably below normal (-3.1 to -5.0°C) at many places & markedly below normal (-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 up to 10 kmph during morning hours. The wind speed will gradually increase up to 15 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.

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 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 from the southeast direction with calm wind in early morning hours and gradually increase, becoming up to 05 kmph during morning hours. The wind speed will increase up to 08 kmph from the northeast 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 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 from the southeast direction with calm wind in early morning hours and gradually increasing up to 05 kmph during

morning hours. The wind speed will increase 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.

ANNEXURE IV



Impact & Action Suggested due to

- ❖ Isolated **very Heavy rainfall** over Tamil Nadu on 17th; over Andaman & Nicobar Islands during 20th -22nd 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 and 19th 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 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 **Andhra Pradesh**, harvest matured crops of rice, groundnut and vegetables and shift the harvested produce to safer places. Make provision for draining out excess water from fields of rice, maize, pigeon pea, cotton, vegetables and plantations of banana.
- 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.
- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

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

- 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:

- ❖ **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. झारखंड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखंड

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. कोंकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुडुचेरी और कराईकल

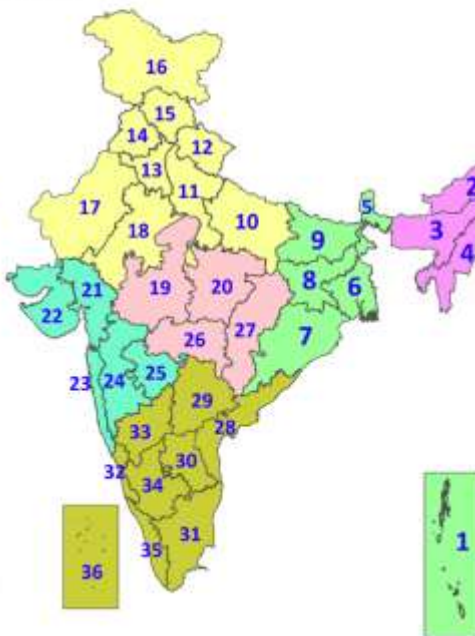
32. तटीय कर्नाटक

33. आंतरिक उत्तरी कर्नाटक

34. आंतरिक 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)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)



Fog



Heavy Snow



Cold Wave



Heavy Rain



Dust Storm



Cold Day



Very Heavy Rain



Heat Wave



Ground Frost



Extremely Heavy Rain



Warm Night



Thunder & Lightning



Hot Day



Hailstorm



Hot & Humid



Dust Raising Winds



Strong Surface Winds

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

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(Service to the Nation since 1875)

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 *

Heat Wave

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

Warm Night

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

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°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 $\leq 15^{\circ}\text{C}$

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°C to -6.4°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 62-67 kmph

Very Severe: Wind speed > 67 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 Storm: Wind speed > 220 kmph (> 119 knots)

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