Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 11th November 2026
Time of Issue:1255 hours IST

Subject: (i) A western disturbance is likely to cause scattered to fairly widespread rainfall/snowfall over Western Himalayan Region till 13th with isolated heavy rainfall/snowfall likely over Kashmir valley on 12th November.
(ii) A Low Pressure Area is likely to form over Southeast Bay of Bengal around 13th November. It is-likely to move northwestwards and become Well Marked Low Pressure Area around 14th November and Depression around 15th November over the same region.

Realized weather during past 24 hours ending at 0830 hours IST of today, the 11th November, 2026:

- **Heavy rainfall (7-11 cm)** has been recorded over Andaman & Nicobar Islands.

Weather Systems, Forecast and Warnings (Annexure I & II):

- The **Western Disturbance** as a cyclonic circulation lies over north Pakistan & neighbourhood in lower tropospheric level. However, the **trough** aloft in middle tropospheric level runs roughly along Long. 69°E to the north of Lat. 30°N.
- An **upper air cyclonic circulation** lies over East Uttar Pradesh & neighbourhood in lower tropospheric levels.
- A **trough** runs from the above cyclonic circulation over East Uttar Pradesh & neighbourhood to Northwest Bay of Bengal in lower tropospheric level.
- An **upper air cyclonic circulation** lies over Sikkim & neighbourhood in lower tropospheric level.
- An **upper air cyclonic circulation** lies over central Assam & neighbourhood in lower tropospheric level.
- An **upper air cyclonic circulation** lies over southeast Arabian Sea & adjoining Lakshadweep area in lower tropospheric level.
- An **upper air cyclonic circulation** lies over Gulf of Mannar & neighbourhood in lower tropospheric level.
- An **upper air cyclonic circulation** lay over south Andaman Sea & neighbourhood in lower & middle tropospheric levels at 0830-IST of today, 11th November, 2026. Under its influence, a **Low-Pressure Area** is-likely to form over Southeast Bay of Bengal around 13th November, 2026. It is-likely to move northwestwards and become **Well Marked Low pressure Area** around 14th November and **Depression** around 15th November over the same region.

Under the influence of above systems, the following weather is likely:

Northwest India:

- **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 11th November and during 14th-15th November; Himachal Pradesh during 11th-14th November; Uttarakhand during 12th-14th November.
- **Isolated to Scattered** rainfall likely over Punjab during 12th-13th November.
- **Fairly Widespread to Widespread** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 12th-13th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 12th-13th November.
- Isolated **thunderstorm & lightning** likely over Himachal Pradesh during 12th-13th November.
- Isolated **heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 12th November.
- Isolated **Hailstorm** activity likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 12th November.

East India:

- **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 11th-17th November.
- **Isolated to Scattered** rainfall likely over Jharkhand, Odisha and Sub-Himalayan West Bengal & Sikkim on 11th November; Gangetic West Bengal during 11th-12th November.

- Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Bihar on 11th and **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** over Andaman & Nicobar Islands during 11th-14th November.
- Isolated **heavy rainfall** likely over Andaman & Nicobar Islands during 11th-14th November.

Northeast India:

- **Isolated to Scattered** rainfall likely over Arunachal Pradesh and Assam & Meghalaya during 11th-12th November and during 15th-17th November; Nagaland, Manipur, Mizoram & Tripura during 11th-12th November and on 17th November.
- Isolated **thunderstorm & lightning** likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 11th November.
- Isolated **heavy rainfall** likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 11th November.
- Isolated **Hailstorm** activity likely over Assam & Meghalaya on 11th November.

South Peninsular India:

- **Isolated to Scattered** rainfall likely over Tamil Nadu, Puducherry & Karaikal during 11th-14th November and during 16th-17th November; Kerala & Mahe during 11th-15th November; Lakshadweep during 11th-17th November; Coastal Andhra Pradesh & Yanam and Rayalaseema during 14th-17th November.
- **Fairly Widespread to Widespread** rainfall likely over Tamil Nadu, Puducherry & Karaikal on 15th November; Kerala & Mahe during 16th-17th November.
- Isolated **thunderstorm & lightning** likely over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal during 11th-12th November; Lakshadweep on 11th November.
- Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal on 11th November.

West & Central India:

- **No significant weather likely over West & Central India during the week**.

Fisherman Warning:

- **Bay of Bengal**: Over Andaman Sea till 16th November; over some parts of southeast Bay of Bengal during 13th to 16th November and over adjoining eastcentral Bay of Bengal on 15th November.

Weather conditions and forecast over Delhi/NCR during next 4 days (Annexure III)

For more details, kindly refer National Weather Bulletin: 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/fishermenwarning.php

Highest rainfall recorded (≥ 7 cm) (from 0830 hours IST of yesterday to 0830 hours IST of today over different Meteorological Subdivision):

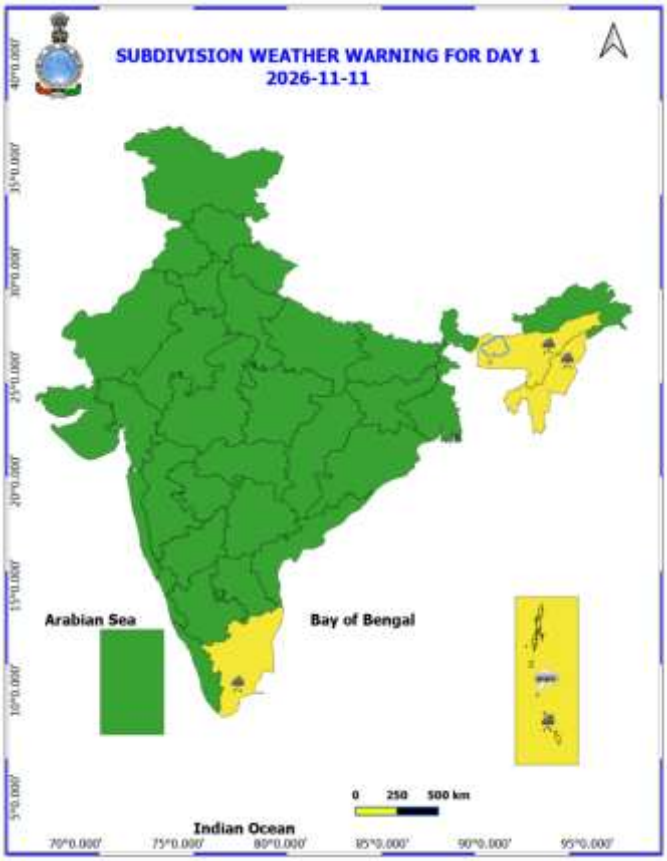
- **Andaman & Nicobar Islands:** Port Blair 10.

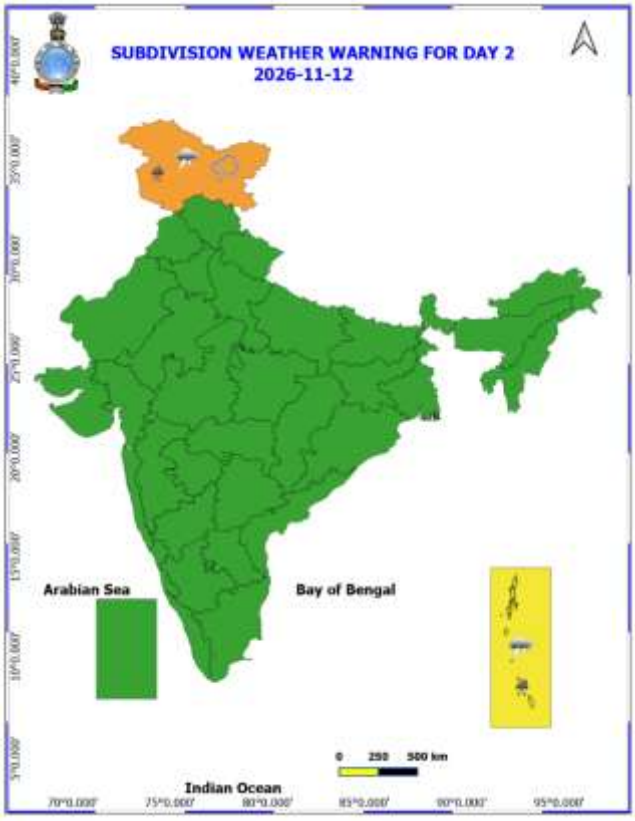
Annexure I

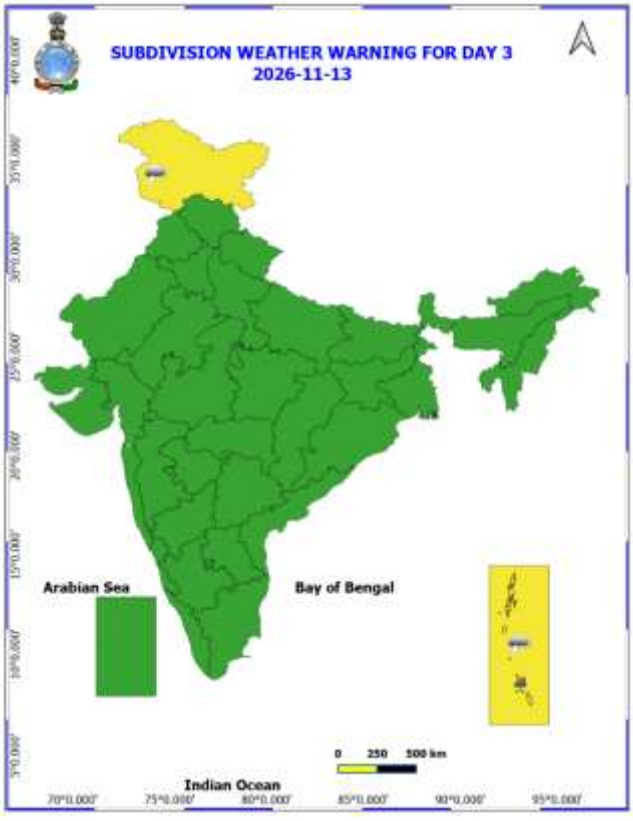
Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	11- Nov	12- Nov	13- Nov	14- Nov	15- Nov	16- Nov	17- Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	WS	FWS
2	ARUNACHAL PRADESH	SCT	ISOL	DRY	DRY	ISOL	SCT	ISOL
3	ASSAM & MEHGHALAYA	SCT	ISOL	DRY	DRY	ISOL	ISOL	ISOL
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	SCT	ISOL	DRY	DRY	DRY	DRY	ISOL
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
7	ODISHA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	ISOL	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	ISOL	ISOL	ISOL	DRY	DRY	DRY
13	HARYANA, CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	SCT	SCT	ISOL	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	ISOL	WS	FWS	ISOL	ISOL	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	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	SCT	FWS	SCT	SCT
32	COSTAL KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
35	KERALA AND MAHE	SCT	SCT	ISOL	SCT	SCT	FWS	FWS
36	LAKSHADWEEP	SCT	SCT	SCT	SCT	SCT	SCT	SCT

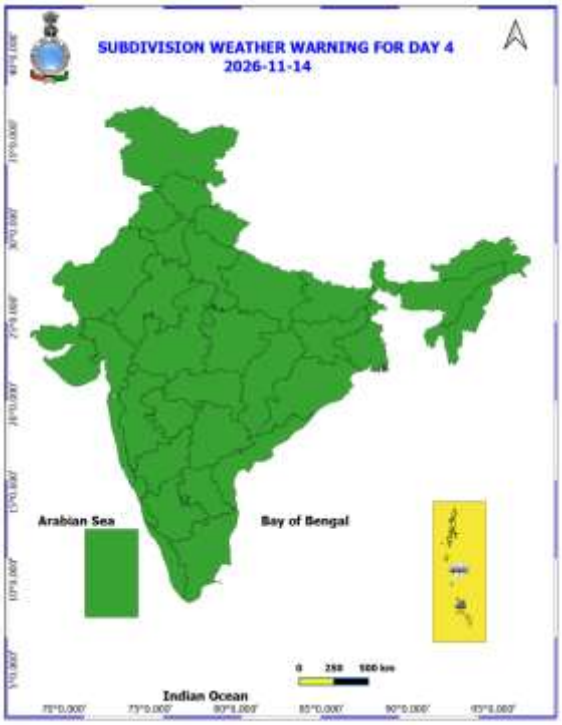
- **As the lead period increases forecast accuracy decrease.**

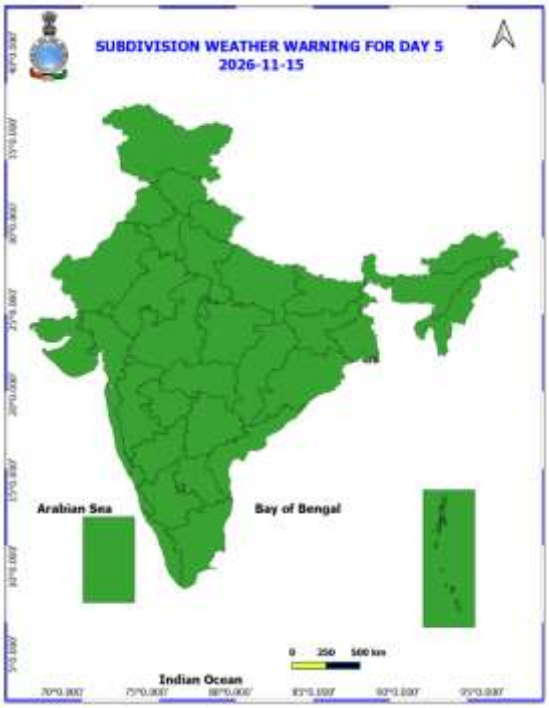
Annexure II

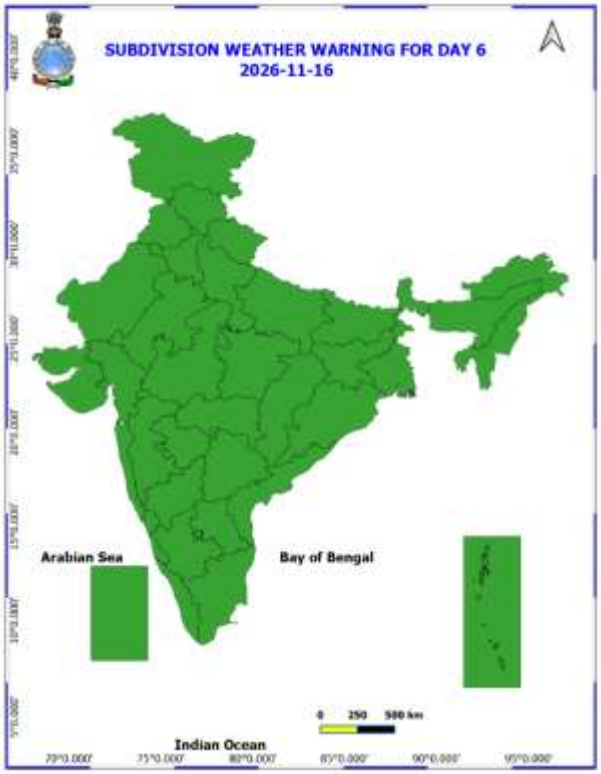

SUBDIVISION WEATHER WARNING FOR DAY 1
2026-11-11
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km

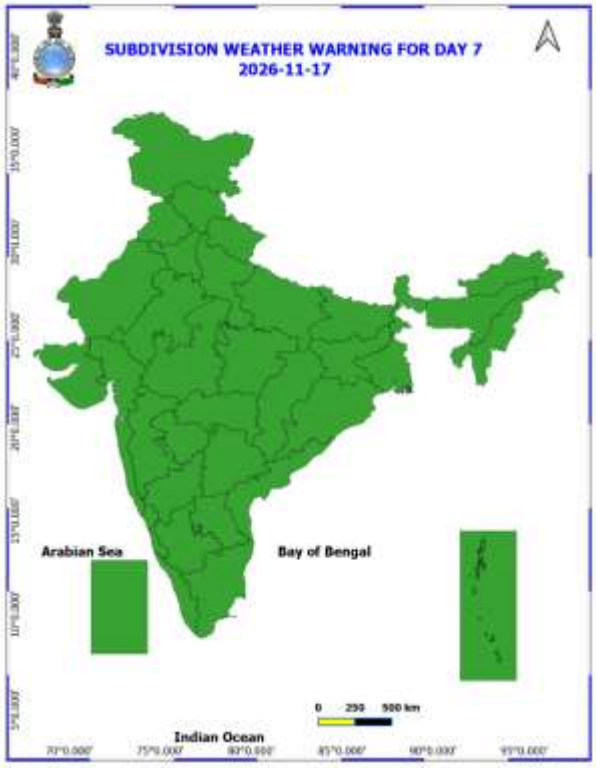

SUBDIVISION WEATHER WARNING FOR DAY 2
2026-11-12
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km


SUBDIVISION WEATHER WARNING FOR DAY 3
2026-11-13
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km









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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

Annexure III

Weather forecast over Delhi/NCR during 11th Nov. to 14th Nov. 2026

Past Weather:

There has been no large change in maximum and minimum temperatures over Delhi during the past 24 hours. The maximum temperatures were in the range of 27-30°C and the minimum temperatures are in the range 15-16°C respectively during past 24 hours over Delhi. The minimum temperatures are above normal (1.6°C to 3.0°C) at isolated places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi during the past 24 hours. The maximum temperatures were below normal (-1.6°C to -3.0°C) at isolated places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi during the past 24 hours. Shallow fog was reported at Palam and Safdarjung airport. Safdarjung reported lowest visibility 800m from 0730 IST to 0830 IST, which gradually improved to 1000m at 1000 IST of today, 11.11.2026. Palam reported lowest visibility 800m at 0830 IST, which gradually improved to 1000m at 1000 IST of today, 11.11.2026. Mainly clear sky with surface wind speeds up to 15 kmph from the west direction prevailed over Delhi during past 24 hours. Mainly clear sky with surface wind speeds up to 10 kmph from the southwest directions prevailed during forenoon over the region today.

Weather Forecast:

11.11.2026: Mainly clear sky becoming partly cloudy sky towards evening. The maximum temperatures over Delhi are likely to be in the range of 27-29°C. The maximum temperature will be near normal (-1.5°C to 1.5°C) at many places over Delhi. The predominant surface wind is likely to be from the west direction with surface wind speed reaching up to 15 kmph during the afternoon. The surface wind speed will decrease becoming up to 10 kmph from the west direction during evening and night hours.

12.11.2026: Partly cloudy sky. Mist/Shallow fog at most places in the morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 27°C to 29°C and 15°C to 17°C, respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed reaching up to 10 kmph during the morning hours. The surface wind speed will increase becoming up to 15 kmph from the northwest direction during afternoon. The surface wind speed will decrease becoming up to 10 kmph from the west direction during evening and night hours.

13.11.2026: Partly cloudy sky. Mist/Shallow fog at most places in the morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 28°C to 30°C and 15°C to 17°C, respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at many places over Delhi. The predominant surface wind is likely to be from the southwest direction with wind speed reaching up to 10 kmph during the morning hours. The surface wind speed will increase becoming up to15 kmph from the northwest direction during afternoon. The surface wind speed will decrease becoming up to 10 kmph from the west direction during evening and night hours.

14.11.2026: Partly cloudy sky. Mist/Shallow fog at most places in the morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 28°C to 30°C and 15°C to 17°C, respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the west direction with wind speed reaching up to 10 kmph during the morning hours. The surface wind speed will increase becoming up to 15 kmph from the northwest direction during afternoon. The surface wind speed will decrease becoming up to 10 kmph from the north direction during evening and night hours.

Impact Expected and Action Suggested due to heavy rainfall:

- **Isolated heavy rainfall likely over Tamil Nadu, Puducherry & Karaikal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 11th; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 12th; Andaman & Nicobar Islands during 11th-14th November**.

Impact expected:

- Breaking of tree branches, uprooting of small trees like banana, papaya, drum sticks. Strong wind and rain may damage plantation, horticulture and standing crops.
- Partial damage to vulnerable structures due to strong winds and rain.
- Minor damage to kutcha houses/walls, huts and roads due to heavy rain.
- Loose objects may fly.
- Small ships, trawlers and boats may be affected.
- Road and rail traffic may be affected due to heavy rain and squally winds.
- There could be localised landslides, mudslides, landslips, water logging, inundation and flooding over low lying areas.
- Occasional reduction in visibility due to heavy rainfall.
- Helicopter services may get affected.

Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Take safe shelters; do not take shelter under trees, as there could be lightning.
- In case of expected lightning, unplug electrical/ electronic appliances, immediately, get out of water bodies and keep away from all the objects that conduct electricity.
- Tourism and recreational activities to be regulated.
- Onshore and offshore activities to be judiciously regulated.
- Helicopter services to be regulated.

Agromet advisories for likely impact of Heavy Rainfall

- In **Tamil Nadu**, harvest matured paddy and groundnut during clear intervals and move the produce to safe, dry storage. In the Cauvery Delta Zone, maintain proper drainage in rice fields and remove excess water to prevent water stagnation. Store harvested banana bunches in dry places and ensure proper drainage in coconut fields. Postpone irrigation, intercultural operations, fertilizer application and plant protection sprays during rainfall.
- In **Mizoram**, continue harvesting mature upland rice and shift the harvested produce to safe, covered places. Continue sowing mustard, pea, rajma and rabi maize, and undertake potato planting and nursery sowing of early cabbage, cauliflower and broccoli only when soil and weather conditions are suitable. Leafy vegetables such as spinach, coriander and methi may be sown in well-prepared fields during suitable intervals.
- In **Meghalaya**, maintain drainage in crop fields and avoid water stagnation. Continue sowing of cole crops under suitable field conditions. Provide staking and mechanical support to tall and fragile crops such as banana, papaya, bottle gourd and pumpkin to minimise lodging during heavy rain and gusty winds. Postpone fertilizer application and plant protection sprays during rainfall.
- In **Andaman and Nicobar Islands**, ensure adequate drainage in standing crop fields and postpone irrigation, intercultural operations, fertilizer application and plant protection sprays during the rainy spell. Ensure pond outlets are clear and secure to prevent fish escape; suspend fish feeding during heavy rainfall and resume gradually after the rain subsides.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface 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.

Advisories for likely impact of Heavy Rainfall for Livestock / Poultry / Fisheries

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

Legends & abbreviations:

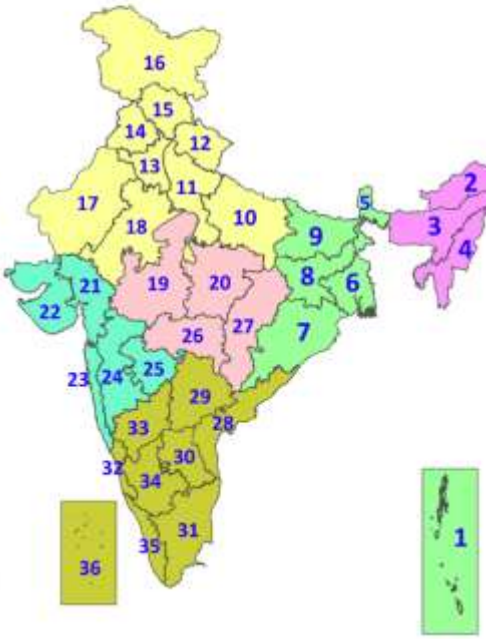
Heavy Rain:64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
Obsy: Observatory; Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District: **NH:** National Highway; **KVK**: Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO**: Part 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, Coastal Maharashtra (Konkan) & Goa, Madhya Maharashtra and Marathawada.
South India: Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Keralam & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

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 Rain
Very Heavy Rain
Extremely Heavy Rain
Thunder & Lightning
Hailstorm
Dust Raising Winds
Heavy Snow
Dust Storm
Heat Wave
Warm Night
Hot Day
Hot & Humid
Strong Surface Winds
Cold Wave
Cold Day
Ground Frost

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

* 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.
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(Service to the Nation since 1875)

राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

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 ≥40° C for plains and ≥30° 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 ≥6.5° C

(b). Based on Actual maximum temperature

- **Heat Wave:** When actual maximum temperature ≥45°C.
- **Severe Heat Wave:** When actual maximum temperature ≥47°C

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°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 °C.

Cold Wave

When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C

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

- **Cold Wave :** When Minimum Temperature is ≤ 4.0 °C
- **Severe Cold Wave:** When Minimum Temperature is ≤ 2.0 °C

(c) For Coastal Stations

When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C

Cold Day

When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility < 1km

- **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 ≤4°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)

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