Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 13th November 2026
Time of Issue:1310 hours IST

Subject: (i) A Low-Pressure Area formed over Southeast Bay of Bengal. It is likely to become Well Marked Low Pressure Area on 14th, into a Depression on 15th over the same region, Thereafter, it is likely to move north-northwestwards and intensify further into a cyclonic storm over the central Bay of Bengal around 16th November evening.
(ii) A fresh Western Disturbance is likely to affect Northwest India from 15th November, 2026.

Realized weather during past 24 hours ending at 0830 hours IST of today, the 13th November, 2026:

- **Heavy rainfall (7-11 cm)** has been recorded over Kerala.

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

- Under the influence of the yesterday's **upper air cyclonic circulation** over central Andaman Sea and adjoining Andaman & Nicobar Islands, a **Low Pressure Area** formed over Southeast Bay of Bengal at 0530 hours IST and lay over the same region at 0830 hours IST of today, 13th November, 2026. It is very likely to move northwestwards, become **Well Marked Low Pressure Area** on 14th November and intensify into a **Depression** over the same region around morning of 15th November, 2026. Thereafter, it is likely to move north-northwestwards and intensify further into a **cyclonic storm** over the central Bay of Bengal around 16th November evening.
- An east-west **trough** runs from the cyclonic circulation associated with the above **Low Pressure Area** over Southeast Bay of Bengal to northern parts of Maldives in lower tropospheric levels.
- The **Western Disturbance** as a **trough** in middle tropospheric level runs roughly along long 73°E to the north of Lat 32°N.

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

Northwest India:

- **Fairly Widespread to Widespread** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 13th November.
- **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 14th-15th November; Himachal Pradesh and Uttarakhand during 13th-15th November.
- **Isolated to Scattered** rainfall likely over Haryana Chandigarh & Delhi and Punjab during 13th-14th November; West Rajasthan and West Uttar Pradesh during 14th-15th November; East Rajasthan on 15th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 13th-14th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over West Rajasthan during 14th-15th November.
- Isolated **thunderstorm & lightning** likely over Himachal Pradesh on 13th November.

East India:

- **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 13th-19th November.
- **Isolated to Scattered** rainfall likely over Gangetic West Bengal and Odisha during 18th-19th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Andaman & Nicobar Islands during 13th-17th November, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Andaman & Nicobar Islands during 18th-19th November; Gangetic West Bengal on 19th November.
- Isolated **heavy rainfall** likely over Andaman & Nicobar Islands during 13th-16th November; Odisha on 18th & 19th November.

South Peninsular India:

- **Isolated to Scattered** rainfall likely over Tamil Nadu, Puducherry & Karaikal during 13th-14th November and during 16th-19th November; Kerala & Mahe during 13th-15th November; Lakshadweep during 13th-19th November; Coastal Andhra Pradesh & Yanam and Rayalaseema during 14th-19th November.
- **Fairly Widespread to Widespread** rainfall likely over Tamil Nadu, Puducherry & Karaikal on 15th November; Kerala & Mahe during 16th-19th November.
- Isolated **heavy rainfall** likely over Coastal Andhra Pradesh & Yanam on 18th & 19th November.

West, Central and Northeast India:

- **No significant weather likely over West, Central and Northeast India during the week**.

Wind warning:

- Andaman Sea and along & off Andaman & Nicobar Islands:

  Squally weather with wind speed reaching 40-50 gusting to 60 kmph is very likely to prevail till 17th November.

- Southeast Bay of Bengal:

  Squally weather with wind speed reaching 40-50 gusting to 60 kmph is very likely to prevail on 14th & 15th November. It is likely to increase becoming Squally wind 50-60 kmph gusting to 70 kmph on 16th & 17th November.

- Southwest Bay of Bengal:

  Squally weather with wind speed reaching 40-50 gusting to 60 kmph is very likely to prevail on 14th becoming squally wind speed reaching 45-55 gusting to 65 kmph on 15th November. It is likely to increase becoming Squally wind 50-60 kmph gusting to 70 kmph on 16th November and Gale wind speed reaching 60-70 kmph gusting to 80 kmph from 17th November for subsequent 24 hours.

- Central Bay of Bengal:

  Squally wind speed reaching 45-55 gusting to 65 kmph is likely to prevail on 16th November. It is likely to increase becoming Gale wind speed reaching 65-75 kmph gusting to 80 kmph from 17th November for subsequent 2 days.

Sea condition:

- Andaman Sea and along & off Andaman & Nicobar Islands:

  Rough to very rough sea condition is very likely to prevail till 17th November.

- Southeast Bay of Bengal:

  Rough to very rough sea condition is very likely till 17th November

- Southwest Bay of Bengal:

  Rough to very rough sea condition is very likely till 15th November, becoming very rough to high on 16th November and high from 17th November for subsequent 24 hours.

- Central Bay of Bengal:

  Rough to very rough sea condition is very likely on 16th November. It is likely to deteriorate becoming high from 17th November for subsequent 2 days.

Fisherman warning:

- Fishermen out at sea are advised to return to coasts by 15th November, 2026.

Fishermen are advised not to venture into

- Andaman Sea and along & off Andaman & Nicobar Islands till 17th November.
- Southeast Bay of Bengal from till 17th November.
- Southwest Bay of Bengal during 15th – 18th November.
- Central Bay of Bengal during 16th – 19th 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

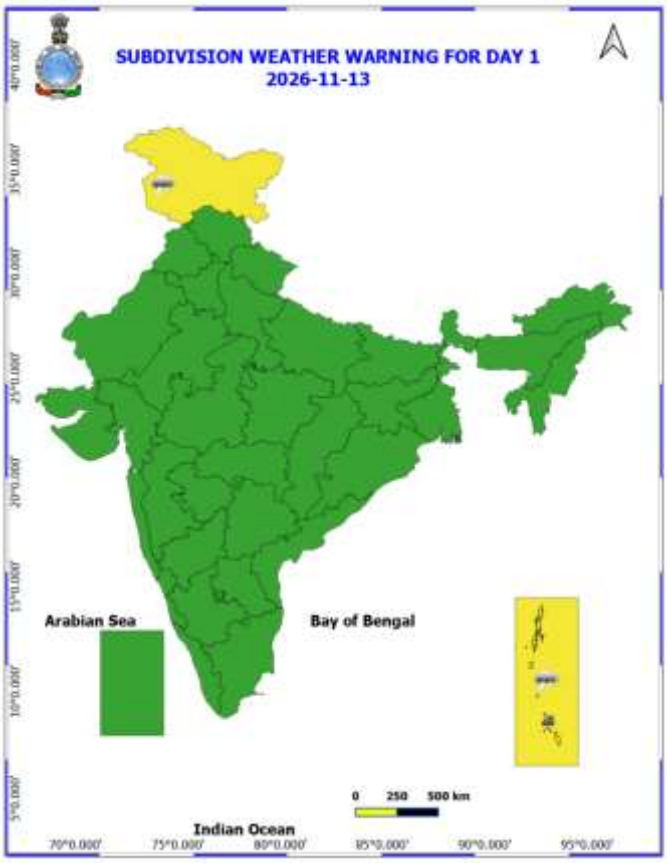
Highest rainfall recorded (≥ 7 cm) (from 0830 hours IST of yesterday to 0830 hours IST of today over different Meteorological Subdivision):

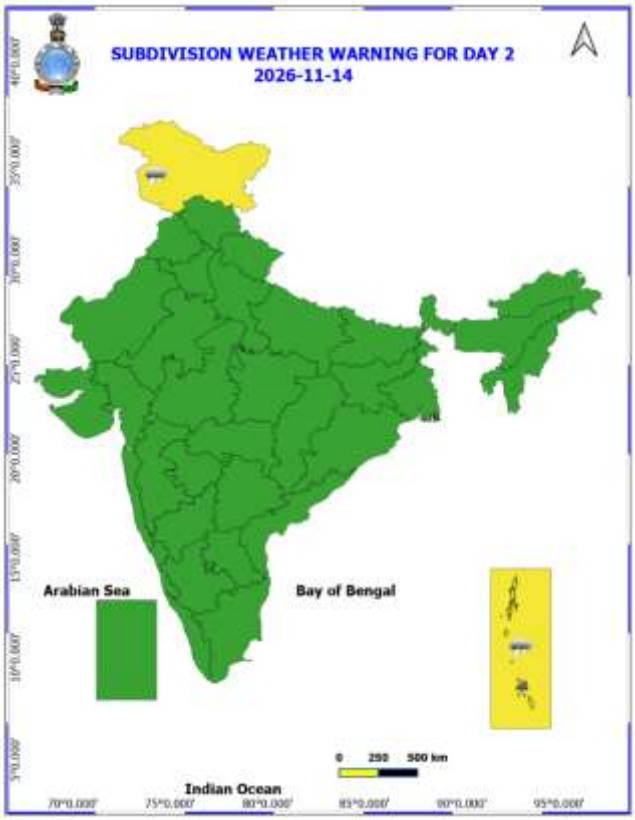
- **Kerala:** Thiruthum 7.

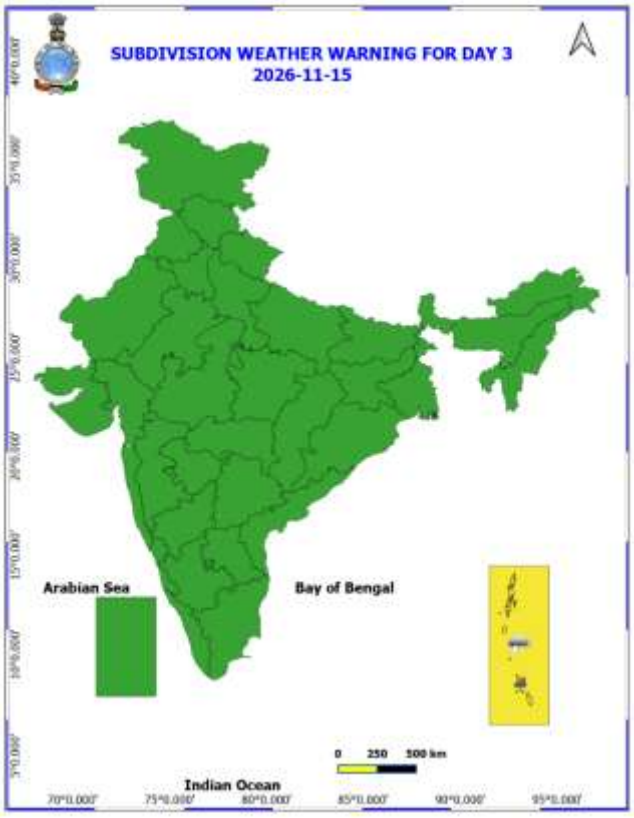
Annexure I

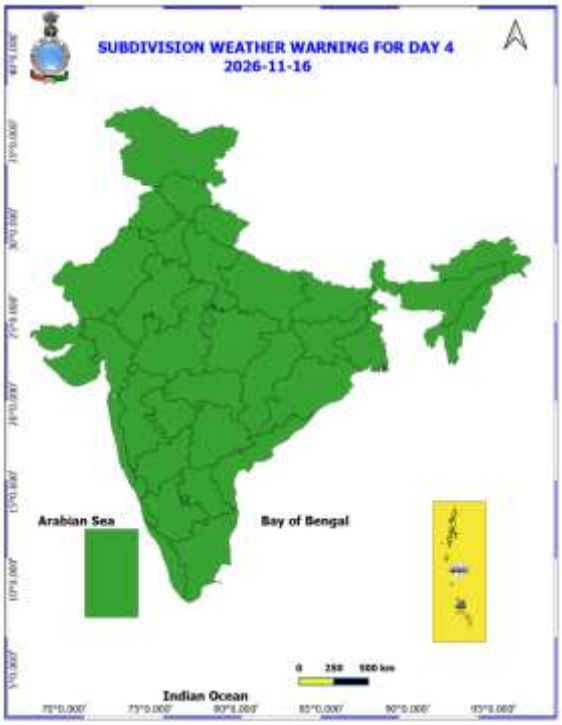
Table-1 7 Days Rainfall Forecast								
S.No.	Subdivision	13- Nov	14- Nov	15- Nov	16- Nov	17- Nov	18- Nov	19- Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	FWS	FWS
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	SCT	ISOL	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	ISOL	ISOL	ISOL	DRY	ISOL
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	DRY	DRY	DRY	DRY	ISOL	ISOL	SCT
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	ISOL	SCT
7	ODISHA	DRY	DRY	DRY	DRY	DRY	ISOL	SCT
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	ISOL	ISOL	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
13	HARYANA, CHANDIGARH & DELHI	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	FWS	SCT	ISOL	DRY	DRY	DRY	DRY
17	WEST RAJASTHAN	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	ISOL	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	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL	SCT	FWS	SCT	SCT	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	ISOL	SCT	SCT	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	SCT	SCT	SCT	SCT	SCT	SCT	SCT

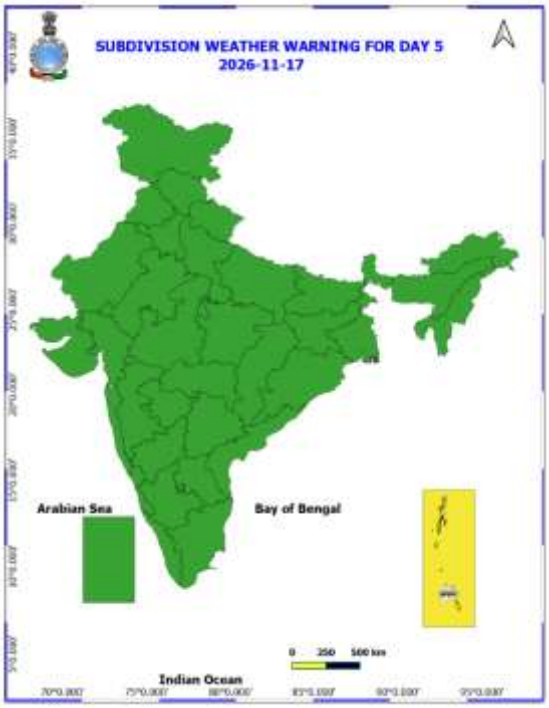
- **As the lead period increases forecast accuracy decrease.**

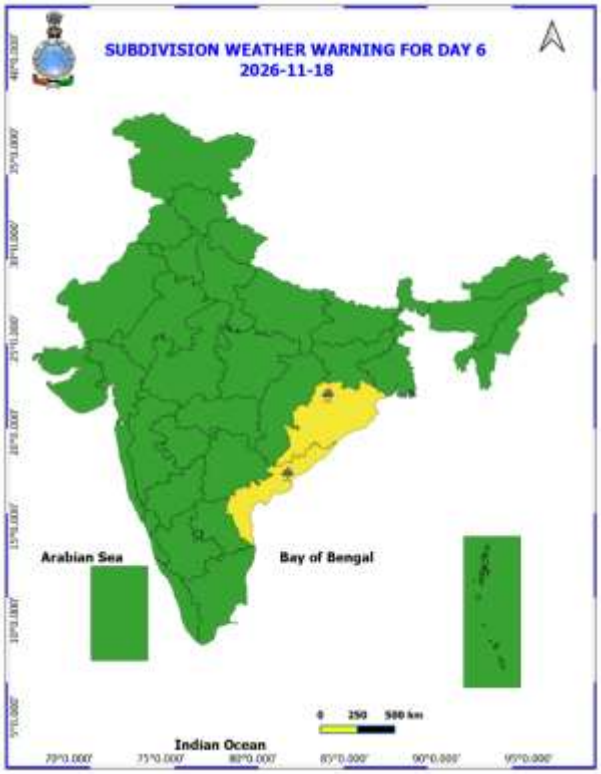

SUBDIVISION WEATHER WARNING FOR DAY 1
2026-11-13
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km

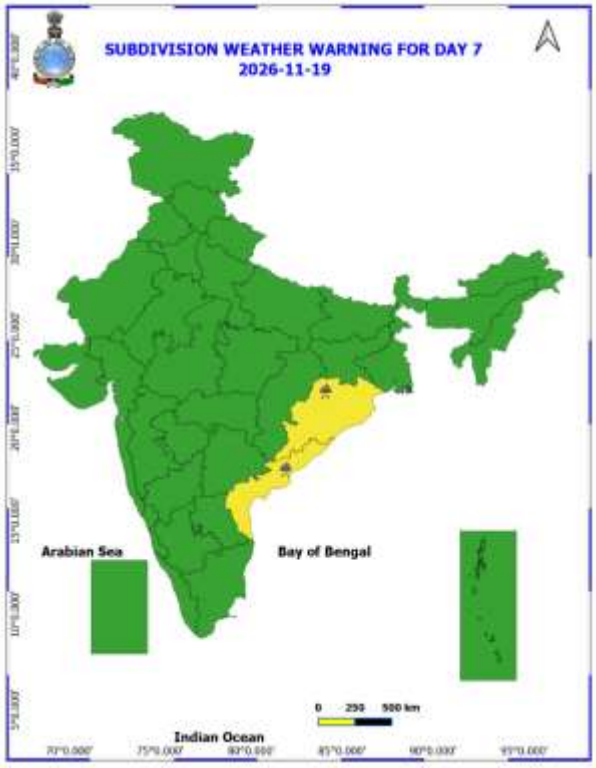

SUBDIVISION WEATHER WARNING FOR DAY 2
2026-11-14
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km


SUBDIVISION WEATHER WARNING FOR DAY 3
2026-11-15
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 13th Nov. to 16th 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 16-17°C respectively during past 24 hours over Delhi. The minimum temperatures are markedly above normal (5.1°C to above) at isolated places and above normal (1.6°C to 3.0°C) over remaining parts of Delhi during the past 24 hours. The maximum temperatures were normal (-1.5°C to 1.5°C) over most places of Delhi during the past 24 hours. Moderate fog was reported at Safdarjung airport. Safdarjung reported lowest visibility 200m at 0630 IST, which gradually improved to 800m at 0830 IST of today, 13.11.2026. Palam reported lowest visibility 1000m at 0700 IST to 0830 IST, which gradually improved to 1200m at 0900 IST of today, 13.11.2026. Mainly clear sky with surface wind speeds up to 10 kmph from the southwest direction prevailed over Delhi during past 24 hours. Mainly clear sky with surface wind speeds up to 10 kmph from the west-southwest directions prevailed during forenoon over the region today.

Weather Forecast:

13.11.2026: Mainly clear sky becoming partly cloudy sky towards afternoon/evening. The maximum temperatures over Delhi are likely to be in the range of 28-30°C. The maximum temperature 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 north direction with surface wind speed reaching up to 15 kmph during the afternoon. The surface wind speed will associate with calm wind, gradually increasing up to 5 kmph from the northeast direction during evening and night hours.

14.11.2026: Partly cloudy sky. Mist/shallow fog at most places with moderate fog at isolated 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 16°C to 18°C, respectively. The minimum temperature will be appreciably above normal (3.1°C to 5.0°C) at many places with above normal (1.6°C to 3.0°C) at isolated place, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The surface wind speed will associate with calm wind gradually increasing up to 05 kmph from the northwest direction 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 associate with calm wind gradually increasing up to 05 kmph from the northwest direction during evening and night hours.

15.11.2026: Partly cloudy sky. Mist/shallow fog at most places with moderate fog at isolated places in the morning hours. Possibility of very light to light rainfall/ drizzle at isolated places towards morning to forenoon. The maximum and minimum temperatures over Delhi are likely to be in the range of 26°C to 28°C and 15°C to 17°C, respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at many places, and the maximum temperatures will be below normal (-1.6°C to -3.0°C) at most places over Delhi. The surface wind speed will associate with calm wind gradually increasing up to 05 kmph from the northwest direction during the morning hours. The surface wind speed will increase becoming up to 20 kmph from the north direction during afternoon. The surface wind speed will decrease becoming up to 10 kmph from the northwest direction during evening and night hours.

16.11.2026: Mainly clear 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 26°C to 28°C and 14°C to 16°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 below normal (-1.6°C to -3.0°C) at many 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 20 kmph from the northwest direction during afternoon. The surface wind speed will decrease becoming up to 15 kmph from the northwest direction during evening and night hours.

Impact Expected and Action Suggested due to heavy rainfall:

- **Isolated heavy rainfall likely over Coastal Andhra Pradesh & Yanam and Odisha on 18th & 19th 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 **Andaman and Nicobar Islands**, ensure proper drainage in rice fields and plantations of Areca nut, coconut and black pepper. Ensure pond outlets are clear and secure to prevent fish escape; suspend fish feeding during heavy rainfall and resume gradually after the rain subsides. Postpone irrigation, intercultural operations, fertilizer application and plant protection sprays during the rainy spell.

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.

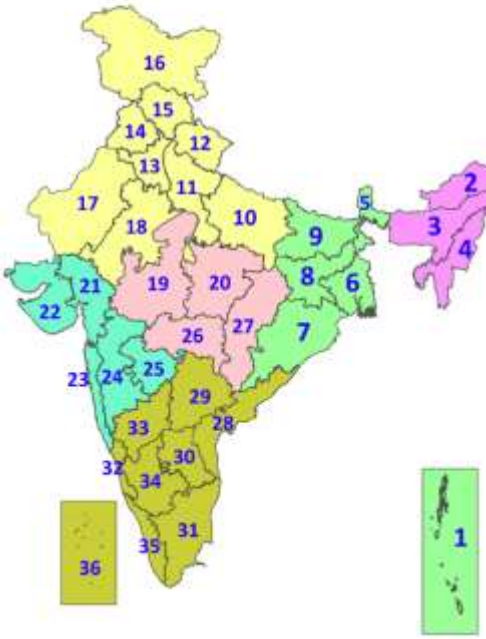
West India: Gujarat Region, Saurashtra & Kutch, Coastal Maharashtra (Konkan) & Goa, Madhya Maharashtra and Marathawada.
South India: Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Keralam & Mahe, Tamil Nadu, Puducherry & 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.
For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599
(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)

* 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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