Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 17th February, 2025
Time of Issue: 1345 hours IST

Subject: a) Maximum temperatures are likely to be above normal by 2-4℃ over many parts of Northwest & Central India during next 4-5 days.
b) A fresh western disturbance is likely to influence Northwest India on 19th & 20th February, 2025.

i. Realised weather during past 24 hours till 0830 hours IST of today (Annexure I)

Temperature:

- During Past 24 hours, Day temperatures have risen by 1-3°C at many places over Bihar, Gangetic West Bengal, Odisha, East Madhya Pradesh, Jharkhand, Chhattisgarh, Uttarakhand, east Vidarbha and North Telangana. It has fallen by 1-3°C at many places over East Rajasthan, Gujarat state and Coastal Andhra Pradesh & Yanam.
- Day temperatures were **markedly above normal (5.0°C or more)** at many places over Jammu-Kashmir-Ladakh Gilgit-Baltistan-Muzaffarabad and southwest Rajasthan; **appreciably above normal (3.0°C to 5.0°C)** at many places over Delhi & adjoining West Uttar Pradesh, southeast Uttar Pradesh, Gujarat region & Kutch, remaining parts of Rajasthan, Konkan & adjoining parts of Madhya Maharashtra, Vidarbha & adjoining Marathwada, Northwest & east Madhya Pradesh, North Chhattisgarh & adjoining interior Odisha, Jharkhand & adjoining Gangetic West Bengal; **above normal (1.0°C to 3.0°C)** at remaining parts of Northwest, Central & adjoining West, East and north Peninsular India.
- During past 24 hours, Night temperatures have fallen by 1-2°C over many parts of Konkan & Goa, Karnataka & Kerala; risen by 2-4°C at many places over West Rajasthan; by 1-2°C at many places over Uttar Pradesh, Central & East India, Telangana, Assam and Meghalaya.
- Night temperatures were **above normal (2.0°C to 5.0°C)** at many places over Northwest India and adjoining central India, Gujarat, Konkan, North interior and coastal Odisha, Bihar, Jharkhand and south Gangetic West Bengal; These were **below normal by (-1.0°C to -2.0°C)** over many parts of Peninsular India, West Gangetic West Bengal, interior Maharashtra, Northeast Assam and Arunachal Pradesh. It is normal over rest parts of the country.
- Further detailed temperature observations during past 24 hours till 0830 hours IST of today are provided in **Annexure II**

Rainfall:

- Light to moderate **Rainfall/Snowfall** observed at a few places over Arunachal Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh; Light to moderate **Rainfall** at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Assam & Meghalaya.

ii. Weather Systems, Forecast and warning (Annexure III & IV):

- A **cyclonic circulation** lies over northeast Assam in lower tropospheric levels. Under its influence,
  - ✓ Scattered to Fairly widespread light/moderate rainfall/snowfall activity likely over Arunachal Pradesh during 17th-23rd February with **Heavy rainfall activity** likely on 19th February.
  - ✓ Isolated to scattered light rainfall activity likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during next 7 days.
  - ✓ Thunderstorm & lightning activity likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 18th -20th February; with gusty winds (speed 30-40 kmph) over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 19th February.
- ✓ A **Western Disturbance** seen as a trough in middle tropospheric westerlies runs roughly along Long. 67°E to the north of Lat. 33°N. An **Induced cyclonic circulation** lies over West Rajasthan in lower tropospheric levels. Under their influence, isolated light rainfall/snowfall activity likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 17th & 18th February.

- ✓ **With movement of this Western Disturbance further eastwards & a north-south Trough at lower levels: Thunderstorm accompanied with lightning & light rainfall likely over Gangetic West Bengal, Odisha and Jharkhand on 19th & 20th February.**
- ✓ Under the influence of a fresh **Western disturbance**; **Scattered to fairly widespread light to moderate rainfall/snowfall accompanied with thunderstorm & lightning over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh & Uttarakhand on 19th & 20th and isolated light rainfall/snowfall during 21st -23rd February.**
- ✓ **Isolated light rainfall activity likely over West Rajasthan on 19th; Punjab, Haryana on 19th & 20th; East Rajasthan on 19th; West Uttar Pradesh on 20th; Chhattisgarh on 21st & 22nd February.**

Temperature & Fog Forecast:

Forecast of temperature:

Minimum Temperature:

- ❖ No significant change in minimum temperatures likely over Northwest India during next 2 days and gradual rise by about 2°C during subsequent 3 days.
- ❖ No significant change in minimum temperature likely over rest parts of India during next 4-5 days.

Maximum temperature:

- ❖ Gradual rise in maximum temperature by about 2°C likely over Northwest India during next 2 days and gradual fall by 2-3°C during subsequent 3 days.
- ❖ No significant change in maximum temperature likely over rest parts of India during next 4-5 days.

Dense Fog Warnings:

- ❖ **Dense fog conditions** very likely to continue to prevail during early morning hours in isolated pockets of Gangetic West Bengal till 18th and Sub-Himalayan West Bengal & Sikkim till 19th February.

iii. Weather conditions and forecast over Delhi/NCR during 17th Feb. to 20th Feb. 2025 (Annexure V)

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

ANNEXURE I

Significant rainfall recorded during past 24 hours till 0830 hours IST of today 17.02.2025 (in cm):

- ❖ **Arunachal Pradesh:** Tenali Aws (Upper Siang) 2, Tawang Chamgbu Kvk Aws (dist Tawang) 1, Tawang_ Aws (dist Tawang) 1, Mukto_arg (dist Tawang) 1

Visibility reported (≤200 m) (in meter):

- ❖ **Dense fog (visibility 50-199 m)** reported in isolated pockets of Gangetic West Bengal and Sub-Himalayan West Bengal & Sikkim.
- ❖ **Visibility reported (≤200 m) (in meter): Gangetic West Bengal:** Diamond Harbour 150; **Sub-Himalayan West Bengal & Sikkim:** Pakyong 100, Darjeeling 150.

- Minimum temperatures are in the range of **8-14°C** over many parts of Punjab, Uttar Pradesh, Haryana, Chandigarh & Delhi; **14-20°C** over many parts of Rajasthan, Central, East & West India. Today, the lowest minimum temperature of **6.8°C** is reported at **Ropar (Punjab)** over the plains of the country.

- During the past 24 hours, **minimum temperatures** have risen by 2-4°C at many places over West Rajasthan; by 1-2°C at many places over Uttar Pradesh, Central & East India & Telangana, Assam & Meghalaya and fallen by 1-2°C over many parts of Konkan & Goa, Karnataka & Kerala.

- Minimum temperatures were **above normal (2.0°C to 5.0°C)** at many places over Northwest India and adjoining central India, Gujarat, Konkan, North interior and coastal Odisha, Bihar, Jharkhand and south Gangetic West Bengal; These were **below normal by (-1.0°C to -2.0°C)** over many parts of Peninsular India, West Gangetic West Bengal, interior Maharashtra, Northeast Assam and Arunachal Pradesh and near normal over rest parts of the country.

- Maximum temperatures are in the range of **35-39°C** over many parts of Odisha, Maharashtra; in some parts of Telangana, Rayalaseema, Kerala & Mahe and Tamilnadu Puducherry & Karaikal; at isolated places over Chhattisgarh, Gujarat State, North Interior Karnataka and Coastal Andhra Pradesh. Yesterday, the highest **maximum temperature of 38.2°C** was reported at **Kurnool (Rayalaseema)** over the plains of the country.

- Maximum temperatures were **markedly above normal (5.0°C or more)** at many places over Jammu-Kashmir-Ladakh Gilgit-Baltistan-Muzaffarabad and southwest Rajasthan; **appreciably above normal (3.0°C to 5.0°C)** at many places over Delhi & adjoining West Uttar Pradesh, southeast Uttar Pradesh, Gujarat region & Kutch, remaining parts of Rajasthan, Konkan & adjoining parts Madhya Maharashtra, Vidarbha & adjoining Marathwada, Northwest & east Madhya Pradesh, North Chhattisgarh & adjoining interior Odisha, Jharkhand & adjoining Gangetic West Bengal; **above normal (1.0°C to 3.0°C)** at remaining parts of Northwest, central & adjoining west, east and north Peninsular India and near normal over rest parts of the country.

Fig. 1: Maximum Temperatures

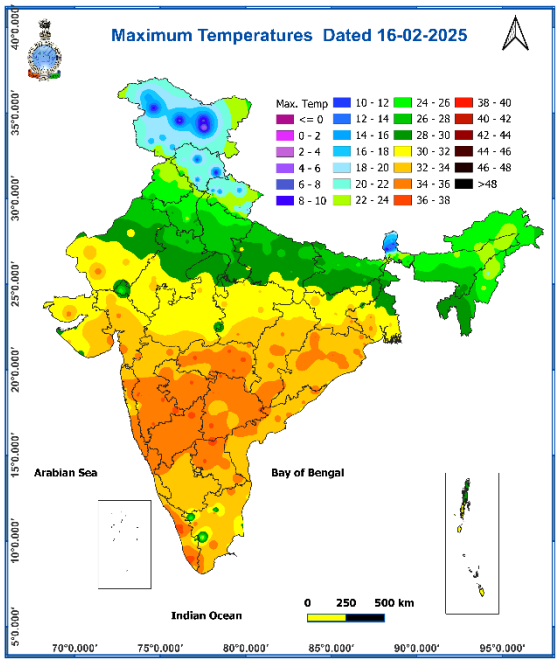


Fig. 2: Departure of Maximum Temperatures

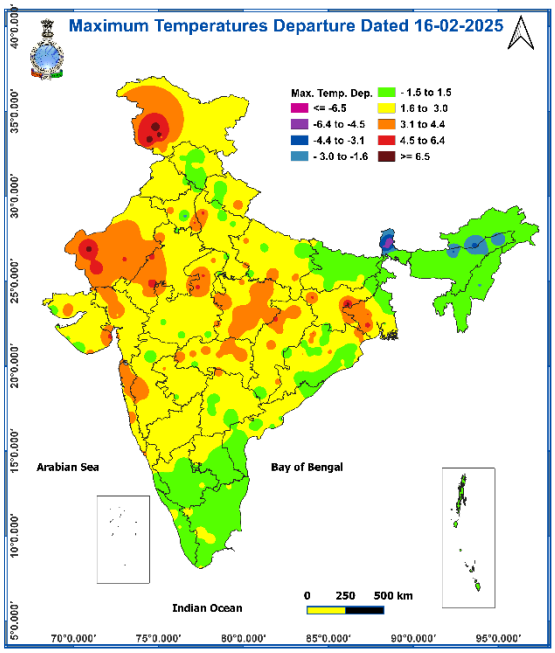


Fig. 3: Minimum Temperatures

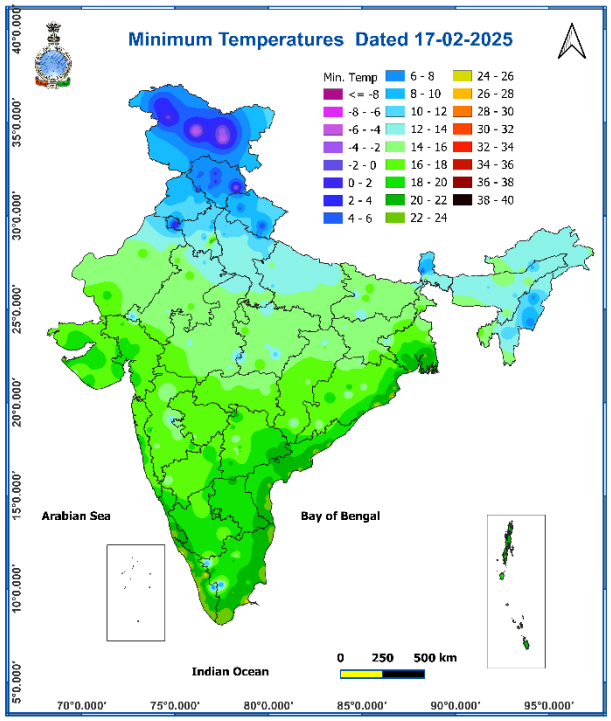
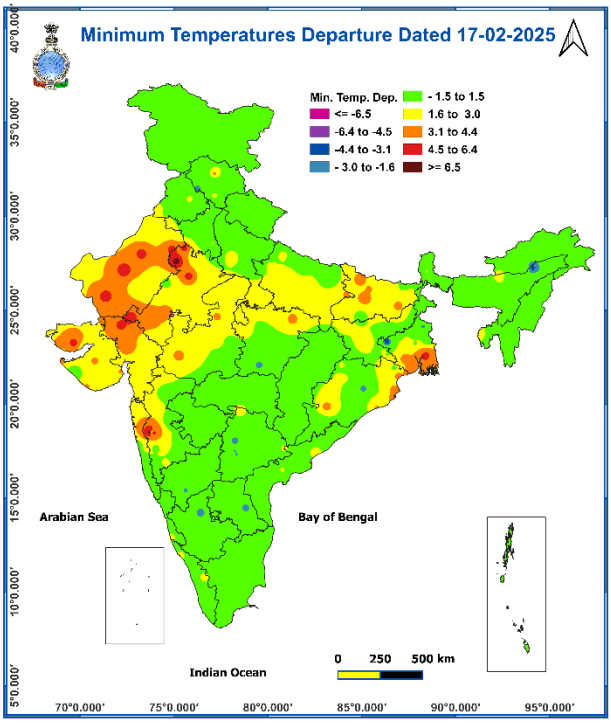


Fig. 4: Departure of Minimum Temperatures

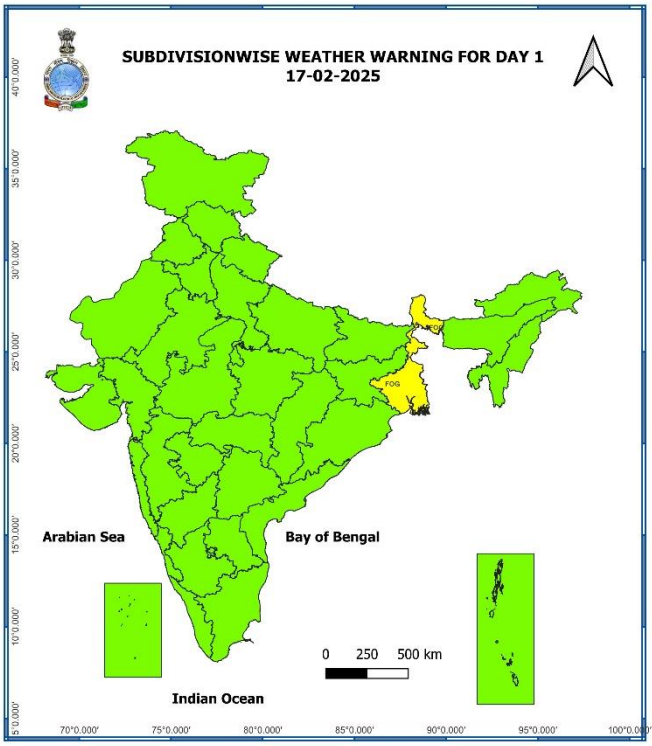


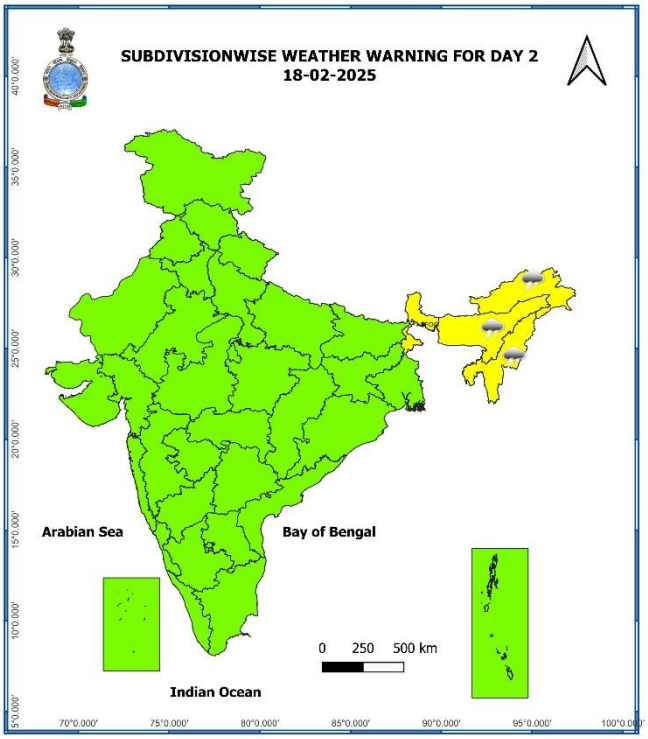
ANNEXURE III

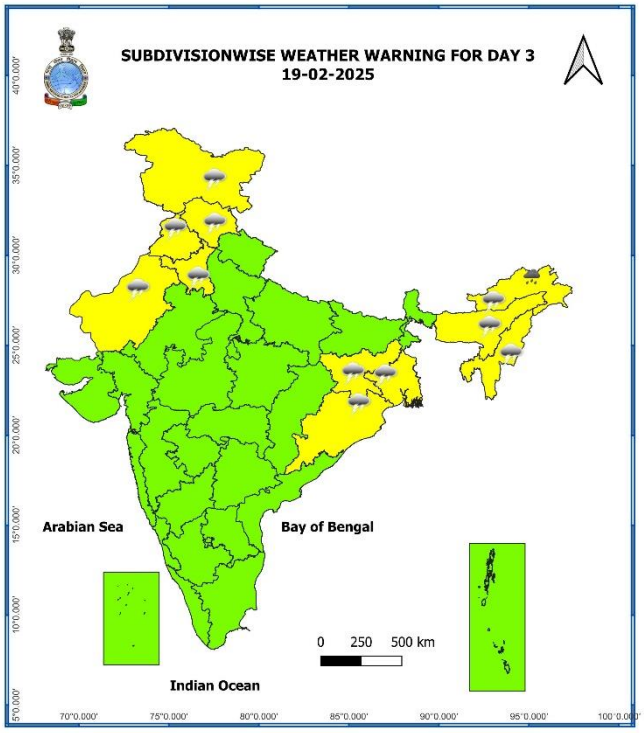
7 Days Rainfall Forecast								
S. No.	Subdivision	17-Feb Day 1	18-Feb Day 2	19-Feb Day 3	20-Feb Day 4	21-Feb Day 5	22-Feb Day 6	23-Feb Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	ISOL	ISOL	ISOL	SCT	SCT	SCT
2	ARUNACHAL PRADESH	SCT	SCT	FWS	SCT	SCT	ISOL	SCT
3	ASSAM & MEGHALAYA	ISOL	ISOL	SCT	ISOL	ISOL	ISOL	SCT
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	ISOL	SCT	SCT	ISOL	ISOL	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	SCT	SCT	ISOL	SCT	SCT
6	GANGETIC WEST BENGAL	DRY	DRY	SCT	SCT	ISOL	SCT	ISOL
7	ODISHA	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
12	UTTARAKHAND	DRY	ISOL	ISOL	FWS	ISOL	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	SCT	FWS	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	ISOL	ISOL	SCT	FWS	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	ISOL	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	GUJARAT 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	MARATHAWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHHATTISGARH	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
28	COASTAL ANDHRA PRADESH & YANAM	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
31	TAMILNADU PUDUCHERRY & KARAIKAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
32	COASTAL 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 & MAHE	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
36	LAKSHADWEEP	DRY	DRY	DRY	DRY	DRY	DRY	DRY

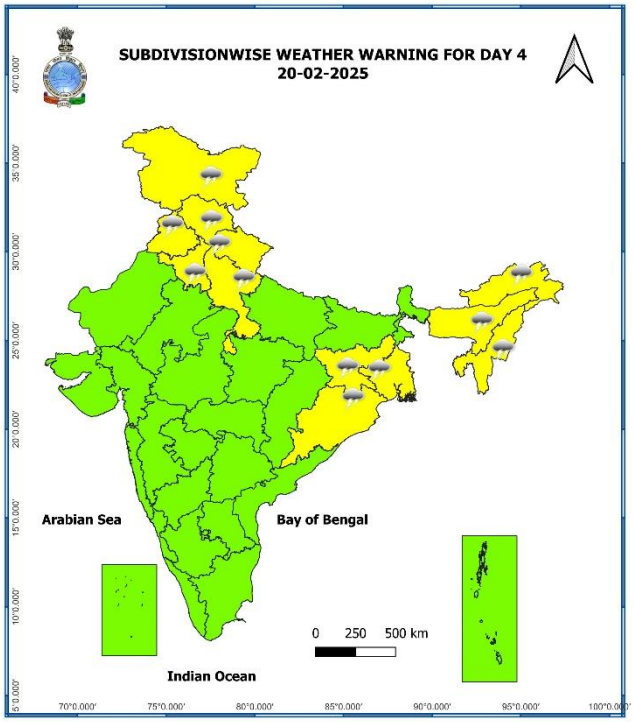
- **As the lead period increases forecast accuracy decreases.**

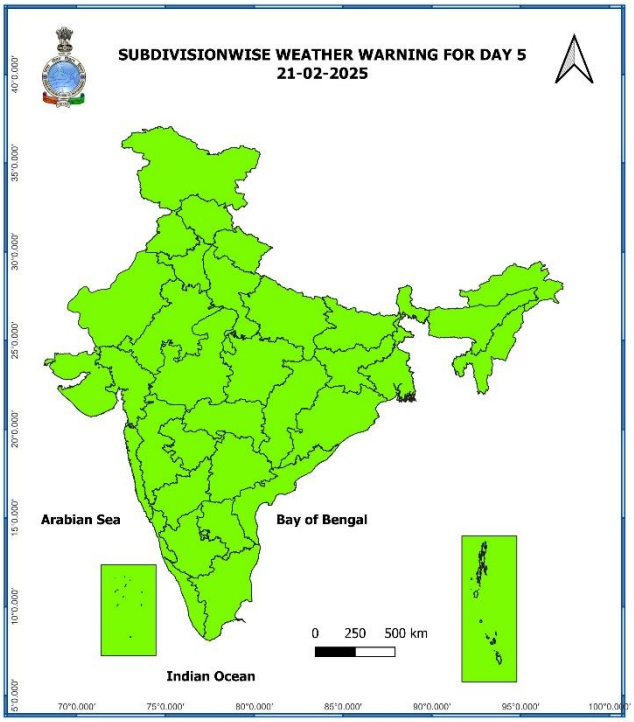
ANNEXURE IV

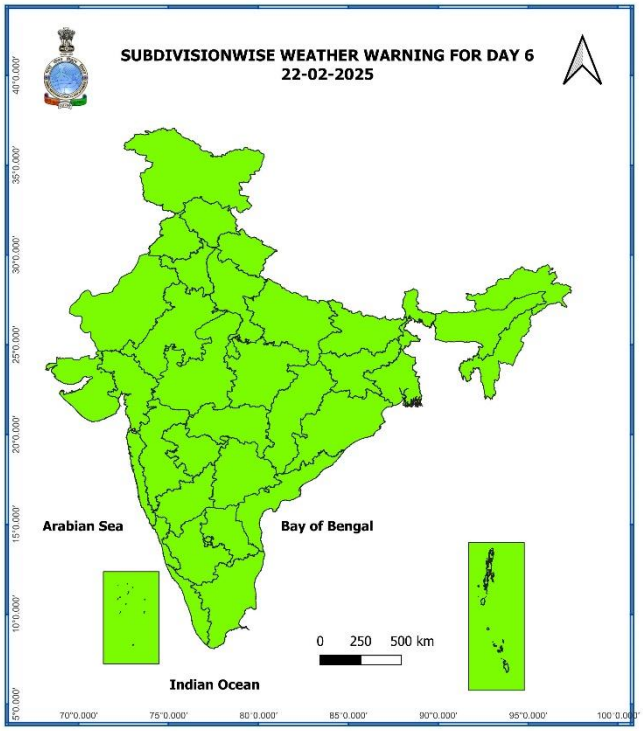

SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
17-02-2025
FOG
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km

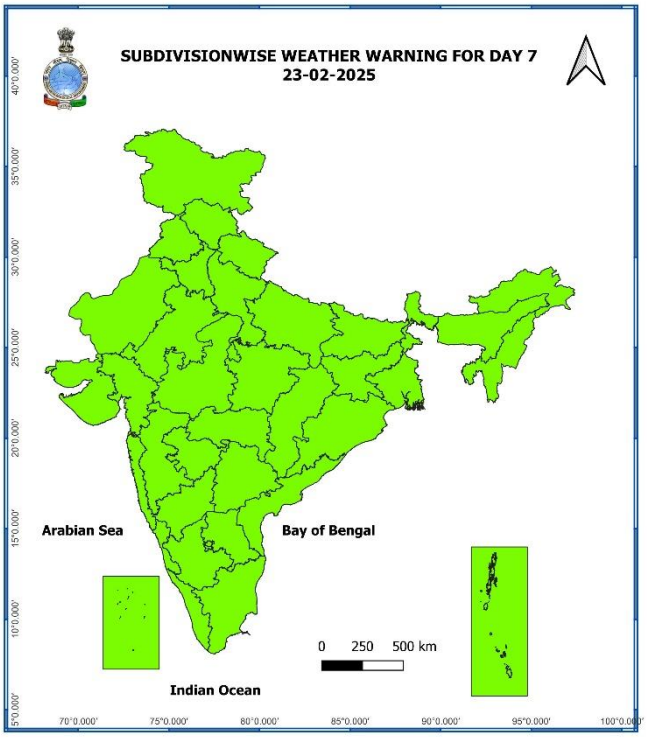

SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
18-02-2025
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km


SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
19-02-2025
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km









- **Action may be taken based on ORANGE AND RED COLOUR 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 V

Weather forecast over Delhi/NCR during 17th Feb. to 20th Feb. 2025

Past Weather:

There has been a rise in minimum and maximum temperatures upto 01°C over Delhi/NCR during the past 24 hours. The Maximum and Minimum temperatures over Delhi are in the range of 27 to 29°C and 11 to 13°C respectively. The minimum temperature was near normal and maximum temperature was above normal upto 04°C over most places. Mainly clear sky conditions with predominant surface wind from the variable direction with wind speed reaching 10 to 12 kmph prevailed during the daytime and calm wind during night time on 16.02.2025. Mainly smog/mist conditions with wind speed less than 04 kmph variable direction prevailed over the region in the forenoon today.

Weather Forecast:

17.02.2025: Partly cloudy sky. The maximum temperature over Delhi is likely to be in the range of 28 to 30°C.The predominant surface wind will likely to be from northwest direction with a wind speed of less than 10 kmph till evening. It would decrease thereafter becoming less than 06 kmph from the north direction during the night.

18.02.2025: Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 27 to 29°C and 10 to 12°C respectively. The predominant surface wind is likely to be from the northeast direction with a wind speed less than 06 kmph during morning hours. The wind speed will gradually increase thereafter becoming 10-12 kmph from the northwest direction during the afternoon. It will decrease further becoming less than 08 kmph from the north direction during evening and night.

19.02.2025: Partly cloudy sky becoming generally cloudy sky towards evening. Very light rain/drizzle likely towards late night. 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 predominant surface wind will likely to be from the northwest direction with a wind speed of less than 06 kmph during morning hours. The wind speed will gradually increase thereafter becoming 08-10 kmph from the northwest direction during the afternoon. It will decrease becoming less than 06 kmph from north direction during evening and night.

20.02.2025: Generally cloudy sky. Very light rain/drizzle likely in the morning. Strong surface wind (speed 20-30 kmph) during the day. The maximum and minimum temperatures over Delhi are likely to be in the range of 25 to 27°C and 12 to 14°C respectively. The predominant surface wind will likely to be from southeast direction with a wind speed of less than 08 kmph during morning hours. The wind speed will gradually increase thereafter becoming 18-20 kmph from the southeast direction during the afternoon. It will decrease becoming less than 10 kmph from northeast direction during evening and night.

Agromet advisories for likely impact of Heavy Rainfall

- In **Arunachal Pradesh**, harvest mature rice and store the harvested produce in properly covered shelters. Make necessary arrangements to provide extensive drainage in the fields of rice, mustard, other standing crops, vegetables and horticultural crops.
- Provide mechanical support to horticultural crops and staking to vegetables.

Livestock

- Keep the animals inside the shed during heavy rainfall and provide them with balanced feed. Store feed and fodder in a safe place to prevent spoilage.

Legends & abbreviations:

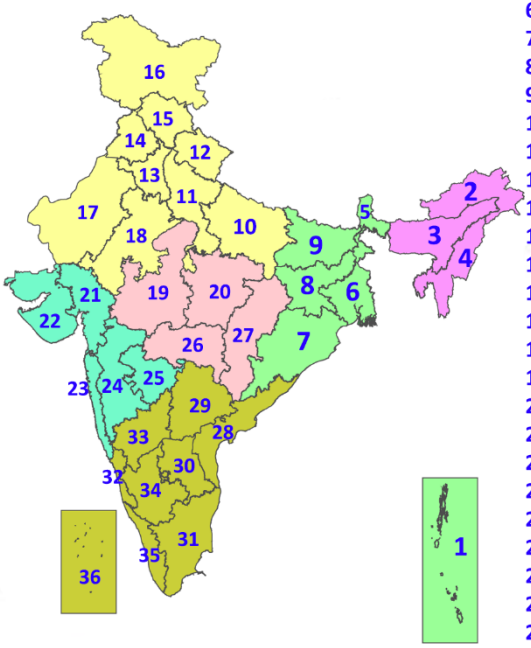
- **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- **Obsy:** Observatory; **AWS:** Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District: **NH:** National Highway; **KVK**: Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **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.

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

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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 ≥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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