

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 19th February, 2025 Time of Issue: 1345 hours IST

Subject: a) Isolated to scattered rainfall along with thunderstorm/lightning/hailstorm likely over East India during next 4-5 days.

b) Scattered to fairly widespread rainfall/snowfall likely over Western Himalayan Region and isolated to scattered rainfall over plains of Northwest India during next 48 hours. Isolated heavy rainfall/snowfall also likely over Western Himalayan Region on 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 some places over Jammu-Kashmir, Bihar, Saurashtra & Kutch; at isolated places over Haryana, Assam & Meghalaya, West Madhya Pradesh, Tamilnadu Puducherry & Karaikal. It has fallen by 1-3°C at some places over Odisha; at isolated places over Rajasthan, Uttar Pradesh and Gangetic West Bengal.
- ❖ Day temperatures were **markedly above normal (5°C or more)** at a few places over Jammu-Kashmir; **above normal** (2.0°C to 5.0°C) at many places over Northwest, Central & West India and Odisha; at isolated places over Bihar, Jharkhand and Nagaland, Manipur, Mizoram & Tripura.
- During past 24 hours, Night temperatures have fallen by 1-4°C at many places over Gujarat State, Rajasthan; at some places over Uttar Pradesh; at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, West Madhya Pradesh and risen by 1-4°C at many places over East India; at some places over Jammu-Kashmir, East Madhya Pradesh, Maharashtra; at isolated places over Chhattisgarh, Telangana and Interior Karnataka.
- Night temperatures were markedly above normal (5.1°C or more) at a few places over Rajasthan; at isolated places over Saurashtra & Kutch; above normal (2.0°C to 5.0°C) at many places over Central, East & West India; at isolated places over Jammu-Kashmir, Himachal Pradesh, West Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and North Interior Karnataka; These were below normal (-1°C to -3°C) at isolated places over East Uttar Pradesh, Tamilnadu Puducherry & Karaikal, Kerala & Mahe and near 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; Light to moderate Rainfall at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over West Uttar Pradesh, East Rajasthan, Odisha, Gangetic West Bengal, West Madhya Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

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

- ❖ A **trough** runs from Gangetic West Bengal to Telangana and an **anti-cyclonic circulation** lies over north Bay of Bengal in lower tropospheric levels. Under its influence,
 - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning with gusty winds (speed 30-40 kmph)** very likely over Gangetic West Bengal on 19th, 20th, 22nd & 23rd; Isolated to scattered light/moderate rainfall accompanied with **thunderstorm & lightning** very likely over Bihar on 20th, 22nd & 23rd; Jharkhand on 19th, 20th, 22nd; Odisha during 19th-23rd February.

- ✓ Hailstorm activity also likely at isolated places over Gangetic West Bengal on 19th & 20th; Jharkhand & Odisha on 19th, 20th & 22nd February.
- ❖ A **Western Disturbance** seen as a cyclonic circulation over Jammu & neighbourhood in lower tropospheric levels. Another Western Disturbance is seen as a trough in lower tropospheric level runs roughly along Long. 60°E to the north of Lat. 30°N. An induced **cyclonic circulation** lies over South Pakistan and adjoining Southwest Rajasthan in lower tropospheric levels. Under their influence;
 - ✓ Scattered to fairly widespread light to moderate rainfall/snowfall accompanied with thunderstorm & lightning over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 19th & 20th and isolated light rainfall/snowfall during 21st -23rd February. Thunderstorm & lightning with isolated hailstorm activity likely over Uttarakhand on 20th February.
 - ✓ **Heavy rainfall/snowfall** at isolated places likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 20th February.
 - ✓ Isolated to Scattered light to moderate rainfall accompanied with **thunderstorm & lightning with gusty winds** (speed 30-40 kmph) likely over Punjab, Haryana, Chandigarh on 19th & 20th; West Rajasthan on 19th February; with **thunderstorm & lightning** likely over East Rajasthan on 19th; Uttar Pradesh on 20th and isolated light rainfall likely over Vidarbha on 22nd; Chhattisgarh during 20th-22nd February.
- ❖ A **fresh Western Disturbance** is likely to affect Northwest India from 24th February, 2025. Under its influence, Isolated to Scattered light to moderate rainfall/snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 24th & 25th; Himachal Pradesh and Uttarakhand on 25th February.
- ❖ Isolated light/moderate rainfall accompanied with **thunderstorm & lightning** very likely over Coastal Andhra Pradesh & Yanam on 22nd & 23rd February.
- ❖ 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 19th-25th 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 on 19th, 20th & 23rd; Assam & Meghalaya during 19th -23rd February; with **gusty winds (speed 30-40 kmph)** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 19th & 20th February.

Temperature Forecast:

Forecast of temperature:

Minimum Temperature:

- No significant change in minimum temperatures likely over Central India during next 3 days and gradual fall by 2-3°C during subsequent 2 days.
- No significant change in minimum temperatures likely over rest parts of India during next 4-5 days.

Maximum temperature:

- ❖ Gradual fall in maximum temperatures by 1-2°C likely over Northwest India during next 2 days and gradual rise by 2-4°C during subsequent 2 days.
- ❖ No significant change in maximum temperatures likely over rest parts of India during next 4-5 days.

iii. Weather conditions and forecast over Delhi/NCR during 19th Feb. to 22nd 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

Significant rainfall recorded during past 24 hours till 0830 hours IST of today 19.02.2025 (in cm):

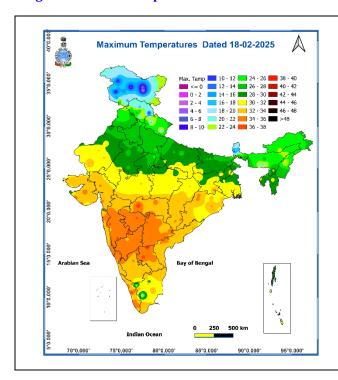
- ❖ Arunachal Pradesh: Kabu Basti (dist West Siang) 3, Tuting (dist Upper Siang) 1, Tuting_ Aws (dist Upper Siang) 1, Tawang_ Aws (dist Tawang) 1;
- * Assam & Meghalaya: Lala Arg (dist Hailakandi) 3, Bihubar (dist Sibsagar) 1, Neamatighat (dist Jorhat) 1;
- ❖ Nagaland, Manipur, Mizoram & Tripura: Dimapur_ Aws (dist Dimapur) 2

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

- ❖ **Dense fog conditions (visibility 50-199 m)** reported in isolated pockets of Gangetic West Bengal, Sub-Himalayan West Bengal & Sikkim and Meghalaya.
- **❖ Visibility reported (≤200 m) (in meter): Gangetic West Bengal:** Dum Dum 50; **Sub-Himalayan West Bengal & Sikkim:** Tadong 50; **Meghalaya:** Barapani 100.

ANNEXURE II

- Minimum temperatures are in the range of 6-12°C over many parts of Punjab, Haryana, Chandigarh & Delhi; 12-18°C over many parts of Rajasthan, Madhya Pradesh, Bihar & Jharkhand. Today, the lowest minimum temperature of 6.6°C is reported at Adampur IAF (Punjab) over the plains of the country.
- During the past 24 hours, **minimum temperatures** have risen by 1-4°C at many places over East India; at some places over Jammu-Kashmir, East Madhya Pradesh, Maharashtra; at isolated places over Chhattisgarh, Telangana and Interior Karnataka. It has fallen by 1-4°C at many places over Gujarat State, Rajasthan; at some places over Uttar Pradesh; at isolated places over Uttarakhand, Haryana Chandigarh & Delhi, West Madhya Pradesh.
- Minimum temperatures are markedly above normal (5.1°C or more) at a few places over Rajasthan; at isolated places over Saurashtra & Kutch; above normal (2.0°C to 5.0°C) at many places over Central, East & West India; at isolated places over Jammu-Kashmir, Himachal Pradesh, West Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and North Interior Karnataka; These are below normal (-1°C to -3°C) at isolated places over East Uttar Pradesh, Tamilnadu Puducherry & Karaikal, Kerala & Mahe and near normal over rest parts of the country.
- ★ Maximum temperatures are in the range of 35-38°C over many parts of Odisha, Maharashtra, Coastal Andhra Pradesh & Yanam; in some parts of Telangana, Rayalaseema, North Interior Karnataka and Kerala & Mahe; at isolated places over Saurashtra & Kutch, Tamilnadu Puducherry & Karaikal and. Yesterday, the highest maximum temperature of 37.8°C was reported at Akola (Vidarbha) over the plains of the country.
- Maximum temperatures were markedly above normal (5°C or more) at a few places over Jammu-Kashmir; above normal (2.0°C to 5.0°C) at many places over Northwest, Central & West India and Odisha; at isolated places over Bihar, Jharkhand and Nagaland, Manipur, Mizoram & Tripura. These were below normal (-1°C to -3°C) at isolated places over Tamil Nadu, Puducherry & Karaikal.



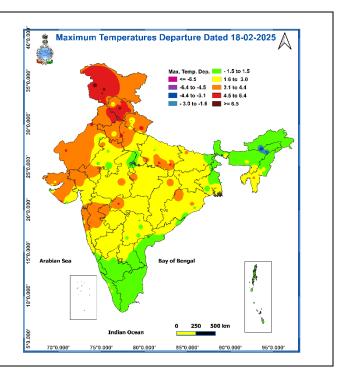


Fig. 3: Minimum Temperatures

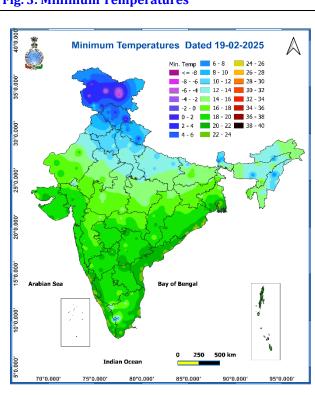
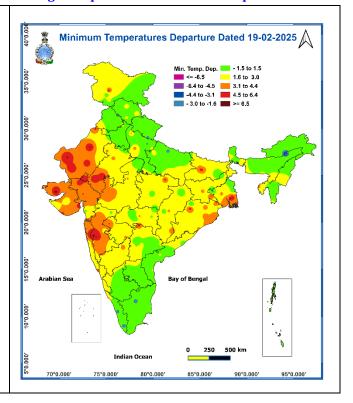
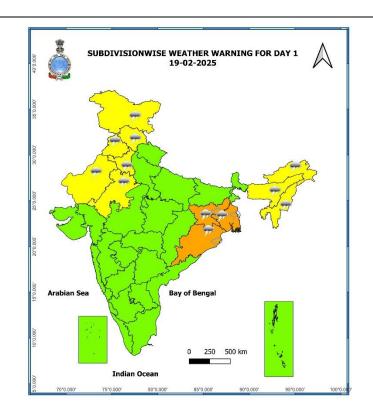


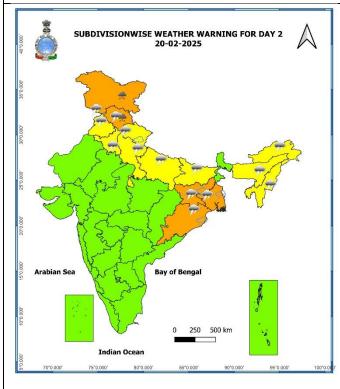
Fig. 4: Departure of Minimum Temperatures

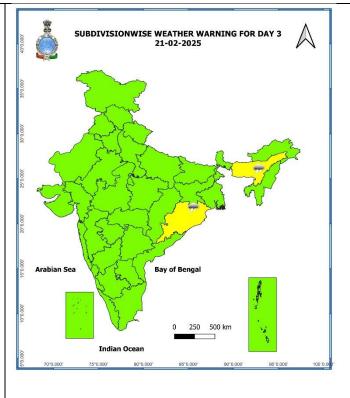


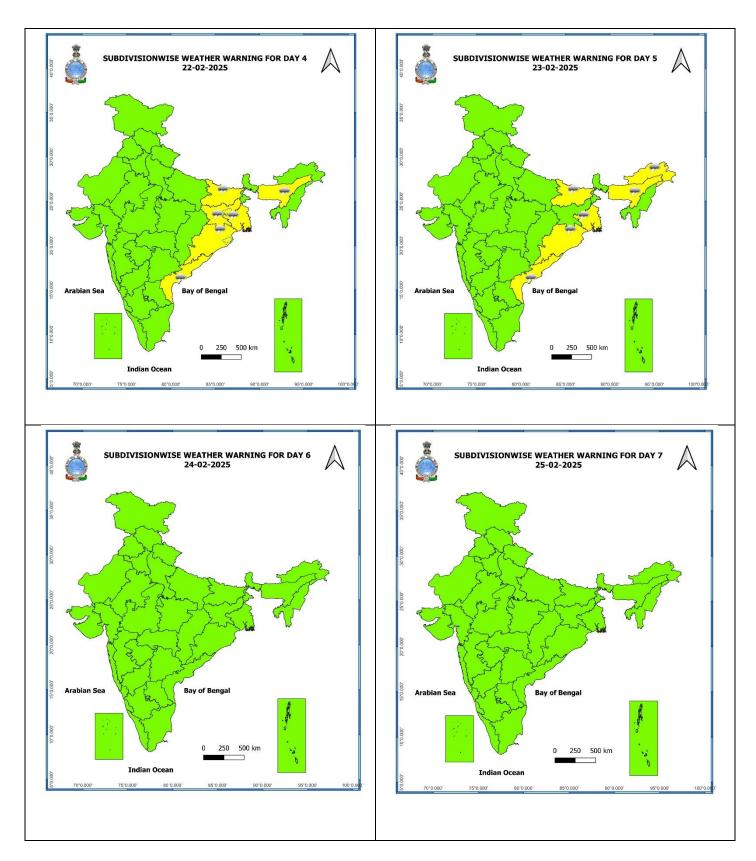
	7 Days Rai	nfall Fo	orecast					
S. No.	Subdivision	19- Feb Day	20- Feb Day	21- Feb Day	22- Feb Day	23- Feb Day	24- Feb Day	25- Feb Day
		1	2	3	4	5	6	7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	SCT	FWS	FWS	WS	WS
2	ARUNACHAL PRADESH	FWS	SCT	SCT	ISOL	SCT	SCT	ISOL
3	ASSAM & MEGHALAYA	SCT	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	ISOL	ISOL	SCT	SCT	ISOL	ISOL
6	GANGETIC WEST BENGAL	SCT	FWS	ISOL	FWS	SCT	DRY	DRY
7	ODISHA	ISOL	SCT	ISOL	SCT	ISOL	ISOL	DRY
8	JHARKHAND	ISOL	ISOL	ISOL	SCT	ISOL	DRY	DRY
9	BIHAR	DRY	ISOL	DRY	ISOL	ISOL	DRY	DRY
10	EAST UTTAR PRADESH	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	FWS	ISOL	ISOL	DRY	DRY	ISOL
13	HARYANA CHANDIGARH & DELHI	ISOL	SCT	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	SCT	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	SCT	WS	ISOL	ISOL	ISOL	DRY	SCT
16	JAMMU & KASHMIR AND LADAKH	FWS	WS	ISOL	DRY	DRY	ISOL	SCT
17	WEST RAJASTHAN	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY						
20	EAST MADHYA PRADESH	DRY						
21	GUJARAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	DRY						
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	ISOL	DRY	DRY
25	MARATHAWADA	DRY	DRY	DRY	DRY	ISOL	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
27	CHHATTISGARH	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	DRY	ISOL	ISOL	ISOL	ISOL	DRY	DRY
29	TELANGANA	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
30	RAYALASEEMA	DRY						
31	TAMILNADU PUDUCHERRY & KARAIKAL	DRY						
32	COASTAL KARNATAKA	DRY						
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	DRY						
35	KERALA & MAHE	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
		†						
36	LAKSHADWEEP	DRY						

• As the lead period increases forecast accuracy decreases.









- 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

Weather forecast over Delhi/NCR during 19th Feb. to 22nd Feb. 2025

Past Weather:

There has been a fall in minimum temperature upto 02°C and slight fall in maximum temperature 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 12°C respectively. The minimum temperature was near normal and maximum temperature was above normal upto 05°C over most places. Mainly clear sky conditions with predominant surface wind from the west direction with wind speed reaching 10 to 12 kmph prevailed during the past 24 hours. Mainly smog/mist conditions with wind speed less than 08 kmph west-south-west direction prevailed over the region in the forenoon today.

Weather Forecast:

19.02.2025: Partly cloudy sky becoming generally cloudy sky towards afternoon/evening. Very light/light rain accompanied with thunderstorm likely towards night. The maximum temperature over Delhi is likely to be in the range of 27 to 29°C. The predominant surface wind will likely to be from northwest direction with a wind speed of less than 12 kmph till evening. It would decrease thereafter becoming less than 06 kmph from the east direction during the night.

20.02.2025: Generally cloudy sky. Very light rain/drizzle during morning hours and afternoon. 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 24 to 26°C and 12 to 14°C respectively. The predominant surface wind is likely to be from the southeast direction with a wind speed less than 10 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 further becoming less than 10 kmph from the southeast direction during evening and night.

21.02.2025: Partly cloudy sky. Smog/mist likely in the morning. The maximum and minimum temperatures over Delhi are likely to be in the range of 26 to 28°C and 12 to 14°C respectively. The predominant surface wind will likely to be from the southeast 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 southeast direction during the afternoon. It will decrease becoming less than 06 kmph from north direction during evening and night.

22.02.2025: Mainly clear sky. Smog/mist likely in the morning. 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 northwest direction with a wind speed of less than06 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 becoming less than 06 kmph from northwest direction during evening and night.

Agromet advisories for likely impact of Heavy Rainfall/Hailstorms

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in **Gangetic West Bengal, Odisha, Jharkhand** and **Uttarakhand**.
- Make provision for draining out excess water from the fields of wheat, mustard, pulses, other standing crops, vegetables and horticultural crops in **Jammu & Kashmir** and **Himachal Pradesh** to avoid water stagnation.
- ➤ Keep the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields.
- Provide mechanical support to horticultural crops and staking to vegetables.

Livestock

- Keep the animals inside the shed during heavy rainfall/ hailstorms 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**

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4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा 5. उप-हिमालयी पश्चिम बंगाल और सिक्किम

6. गंगीय पश्चिम बंगाल



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. आतंरिक उत्तरी कर्नाटक

Sust Raising Winds

34. आतंरिक दक्षिणी कर्नाटक

35. केरल और माहे

36. लक्षद्वीप



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. Puniab

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)



Strong Surface Winds

Probability of Occurrence (%) Very Likely 50 - 75 Most Likely > 75





DEFINITION/CRITERIA

	DEFINITION/CRITERIA
	Heavy: 64.5 to 115.5 mm/cm *
Rain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm*
	Extremely Heavy: > 204.4 mm/cm *
	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	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
	When maximum temperature remains 40°C
Warm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions. (a). Based on departure Cold Ways Minimum Temperature Departure from partial, 4.5 °C to 6.4 °C.
	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
Cold Wave	
Cold Wave	(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
,	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
Cold Day	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
Cold Day	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
Cold Day	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
Fog	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Fog: When the visibility between 500-200 metres
	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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
Fog	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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
Fog Thunderstorm Dust/Sand	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and
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Fog Thunderstorm Dust/Sand Storm	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
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Fog Thunderstorm Dust/Sand Storm Frost	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph
Fog Thunderstorm Dust/Sand Storm Frost	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-87 kmph Very Severe: Wind speed >87 kmph
Fog Thunderstorm Dust/Sand Storm Frost	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) 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 Effect of various waves in the sea over specific area
Fog Thunderstorm Dust/Sand Storm Frost	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) 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 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
Fog Thunderstorm Dust/Sand Storm Frost Squall	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-87 kmph Very Severe: Wind speed >87 kmph Effect of various waves in the sea over specific area Rough to very rough: Wind speed 41-62 kmph (32-33 knots) & Wave height 6-14 metre High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Fog Thunderstorm Dust/Sand Storm Frost Squall	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) 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 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
Fog Thunderstorm Dust/Sand Storm Frost Squall	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-87 kmph Very Severe: Wind speed >87 kmph Effect of various waves in the sea over specific area Rough to very rough: Wind speed 41-62 kmph (32-33 knots) & Wave height 6-14 metre High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Fog Thunderstorm Dust/Sand Storm Frost Squall	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) 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 62-87 kmph 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 >117 kmph (>63 knots) & Wave height 5-14 metre Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre
Fog Thunderstorm Dust/Sand Storm Frost Squall	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) 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 Effect of various waves in the sea over specific area Rough to very rough: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
Fog Thunderstorm Dust/Sand Storm Frost Squall Sea State	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C 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 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) 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 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 Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)