



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 15th March, 2025

Time of Issue: 1400 hours IST

- Subject:**
- i) Heat wave to Severe heat wave conditions likely to continue over Odisha during 15th-18th; Saurashtra & Kutch during 15th-17th March and Heat wave conditions likely over Jharkhand, Gangetic West Bengal, Chhattisgarh, Vidarbha, north Telangana during 15th & 16th, and North Interior Karnataka on 18th & 19th March.
 - ii) Thunderstorm accompanied with hail and gusty winds likely over Haryana, West Uttar Pradesh, Uttarakhand and with isolated heavy rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 15th and over Uttarakhand on 16th March and abate thereafter.
 - iii) Thunderstorm accompanied with hail and gusty winds over northeast India and with isolated heavy rainfall/snowfall over Arunachal Pradesh during next 4-5 days.

i. Realised weather during past 24 hours till 0830 hours IST of today, the 14th March 2025:

- ❖ Light Rainfall/Snowfall occurred at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Haryana, Assam & Meghalaya; at many places over Himachal Pradesh, Arunachal Pradesh; at a few places over Punjab, Sub-Himalayan West Bengal & Sikkim; at isolated places over Uttar Pradesh, Rajasthan, West Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura.
- ❖ Thunderstorm with lightning reported at isolated places over Northwest India, Sub-Himalayan West Bengal & Sikkim and Northeast India.
- ❖ Heavy rainfall reported at isolated places over Assam & Meghalaya.
- ❖ Heat wave to Severe heat wave conditions prevailed at a isolated pockets places over Odisha, Saurashtra & Kutch and Heat wave conditions at isolated places over Vidarbha.
- ❖ Hailstorms reported at isolated locations over Himachal Pradesh, Haryana, Manipur, Nagaland, Arunachal Pradesh, Assam.
- ❖ Gusty wind reported at isolated locations over north Rajasthan, Haryana, southwest Uttar Pradesh and Assam & Meghalaya.
- ❖ For more details of realised weather, kindly refer [Annexure I](#)

Temperature:

- ❖ For temperature observations during past 24 hours till 0830 hours IST of today are provided in [Annexure II](#)

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

- ❖ A Western Disturbance seen as a cyclonic circulation over north Pakistan and adjoining Jammu region in lower & middle tropospheric levels. A cyclonic circulation lies over northeast Rajasthan and a trough runs from southwest Uttar Pradesh to southwest Rajasthan in lower tropospheric levels. Under the influence of these systems;
- ✓ Fairly widespread to widespread light/moderate rainfall/snowfall accompanied with thunderstorm & lightning likely over Western Himalayan region on 15th & 16th March, 2025 and decrease in intensity thereafter.
- ✓ Isolated heavy rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 15th and over Uttarakhand on 16th March.

- ✓ **Hailstorm activity** very likely at isolated places over Uttarakhand, Haryana, Chandigarh and West Uttar Pradesh on 15th March.
- ✓ **Isolated to scattered light/moderate rainfall accompanied with thunderstorm & lightning, Gusty wind (speed 30-40 kmph)** likely over Punjab, Haryana Chandigarh, Uttar Pradesh, Rajasthan on 15th & 16th March.
- ❖ A **Cyclonic Circulation** lies over northeast Assam and neighbourhood in lower tropospheric levels. Under its influence;
 - ✓ **Fairly widespread to widespread light/moderate rainfall/snowfall** accompanied with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** likely over Arunachal Pradesh and **Scattered to fairly widespread** light/moderate rainfall/snowfall accompanied with **thunderstorm, lightning & gusty winds (speed 30-50 kmph)** likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 15th-19th March.
 - ✓ **Isolated heavy rainfall/snowfall** very likely over Arunachal Pradesh during 15th-19th March **with very heavy rainfall on 17th March** and over Assam & Meghalaya on 17th March.
 - ✓ Isolated hailstorms also likely over Arunachal Pradesh, Nagaland, Manipur, south & central Assam on 15th March.

Temperature Forecast:

Forecast of temperature:

Maximum temperature:

- ❖ Gradual fall in maximum temperatures by about 2-3°C likely over Northwest India during next 2-3 days and gradual rise by about 2-4°C thereafter.
- ❖ Gradual rise in maximum temperatures by about 2°C likely over East India during next 2 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures likely over Central India during next 24 hours and fall by 2-3°C during subsequent 3-4 days.
- ❖ No significant change in maximum temperatures likely over rest parts of India during next 3-4 days.

Heat wave, Warm Night and Hot & Humid weather warning:

- ❖ **Heat wave to Severe heatwave conditions** likely at isolated places over Odisha on 15th & 16th; Saurashtra & Kutch on 15th March.
- ❖ **Heat wave conditions** at isolated places over Vidarbha, Chhattisgarh, Jharkhand, north Telangana on 15th & 16th; Gangetic West Bengal during 15th-17th; Saurashtra & Kutch on 16th & 17th; Odisha on 17th & 18th; North Interior Karnataka on 18th & 19th March.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Odisha during 15th to 18th March.
- ❖ **Hot & humid conditions** very likely to prevail in isolated pockets over Kerala & Mahe, Coastal Andhra Pradesh & Yanam on 15th & 16th; Saurashtra & Kutch during 15th-19th March.

iv. Weather conditions and forecast over Delhi/NCR during 15th March to 18th March, 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 weather reported during past 24 hours till 0830 hours IST of today:

Rainfall recorded (in cm):

- ❖ **Assam & Meghalaya:** Majuli (dist Jorhat) 7, Sonari_arg (dist Sibsagar) 6, Algapur Circle AWS (dist Hailakandi) 6,
- ❖ **Uttarakhand:** Almora-6, Chaukhutia, Dwarhat 3each,
- ❖ **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad:** Qazi Gund (dist Kulgam) 5, Banihal (dist Ramban) 4, Gund (dist Ganderbal) 4, Anantnag Aws (dist Anantnag) 4, Khudwani Arg (dist Anantnag) 4,
- ❖ **Arunachal Pradesh:** Longding_new(aws) (dist Longding) 4, Pakke_kesang (aws) (dist Pakke Kessang) 3, Miao(aws) (dist Changlang) 3,
- ❖ **West Uttar Pradesh:** Behat (dist Saharanpur) 2, Budhana (dist Muzaffarnagar) 1, Rampur Maniharan (dist Saharanpur) 1

Thunderstorm reported:

- ❖ **Assam & Meghalaya:** Silchar, Jorhat, Dibrugarh, Shohra, Cherrapunji
- ❖ **Manipur:** Imphal
- ❖ **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad:** Batote & Bhaderwah
- ❖ **Himachal Pradesh:** Bhuntar, Jot, Palampur
- ❖ **Uttarakhand:** Tehri, Mukteshwar;
- ❖ **Punjab:** Patiala;
- ❖ **Haryana:** Ambala, Hisar, Karnal;
- ❖ **Sub-Himalayan West Bengal & Sikkim:** Tadong.

Gusty winds reported (in kmph):

- ❖ **Haryana:** Pandu Pindara (Jind) 59; Kaul 50; Karnal 43,
- ❖ **Assam & Meghalaya:** Hailakandi 39, Dimahasao 33, Baksa 30
- ❖ **Uttar Pradesh:** Gautam Budhha Nagar 55, Hathras 52;
- ❖ **Rajasthan:** Alwar 48, Sikar 46, Jhunjhunu 46, Churu 38.

Hailstorm reported:

- ❖ **Himachal Pradesh:** Kufri;
- ❖ **Haryana:** Sirsa, Hisar;
- ❖ **Arunachal Pradesh:** Khonsa;
- ❖ **Assam:** Hailakandi;
- ❖ **Manipur:** Imaphal;

- ❖ **Maximum Temperature Departures (as on 14-03-2025):** Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places over West Uttar Pradesh, Haryana-Chandigarh-Delhi, Jharkhand, Odisha, Odisha, Chhattisgarh, Vidarbha, Gangetic West Bengal; **appreciably above normal (3.1°C to 5.0°C)** at most places over West Madhya Pradesh, Gujarat Region; at many places East Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Marathwada; at a few places over Madhya Maharashtra; at isolated places Himachal Pradesh, Uttarakhand, Punjab, West Rajasthan, Bihar, Konkan & Goa, Telangana and North Interior Karnataka; **above normal (1.6°C to 3.0°C)** at many places over Coastal & South Interior Karnataka, Rayalaseema and Coastal Andhra Pradesh & Yanam . These were **markedly below normal (5.1°C or less)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan Muzaffarabad; at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **below normal (- 3.0°C to -1.6°C)** at isolated places over Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country. Yesterday, the **highest maximum temperature of 41.8°C** was reported at **Jharsuguda (Odisha)** over the country
- ❖ Yesterday, Maximum Temperatures are in the range of **40-42°C** prevailed over many places in Vidarbha and at isolated places over Madhya Maharashtra, Odisha, Saurashtra & Kutch, Telangana, Rayalaseema; **38-40°C** over many places over Gujarat Region, Madhya Pradesh; at a few places over Chhattisgarh, Coastal Andhra Pradesh & Yanam; at isolated places over Jharkhand, Kerala & Mahe, Tamilnadu Puducherry & Karaikal; **36-38°C** over many places over West Rajasthan; at isolated places over East Uttar Pradesh, North Interior Karnataka.
- ❖ Yesterday, the Maximum temperatures have shown falling tendency in 24 hours by 1-3° C over few parts of Northwest and west India, Gangetic West Bengal; rising tendency in 24 hours by 1-2° C over many parts of East Uttar Pradesh; at a few places over Northeast India, Sub-Himalayan West Bengal & Sikkim and Bihar.

Fig. 1: Maximum Temperatures

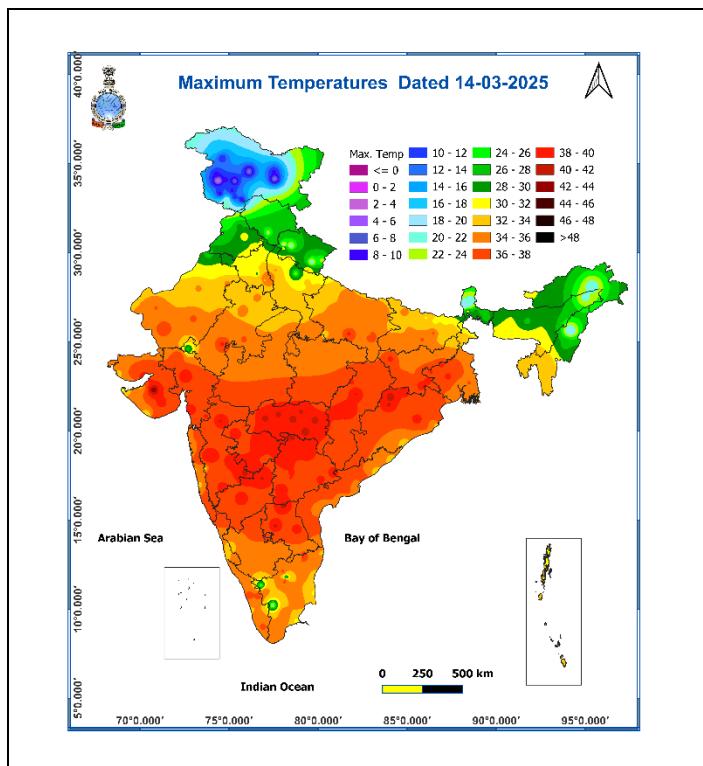
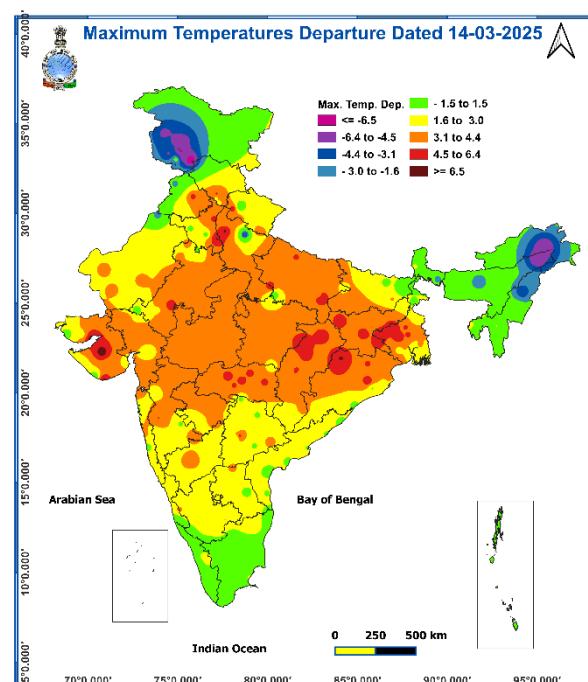
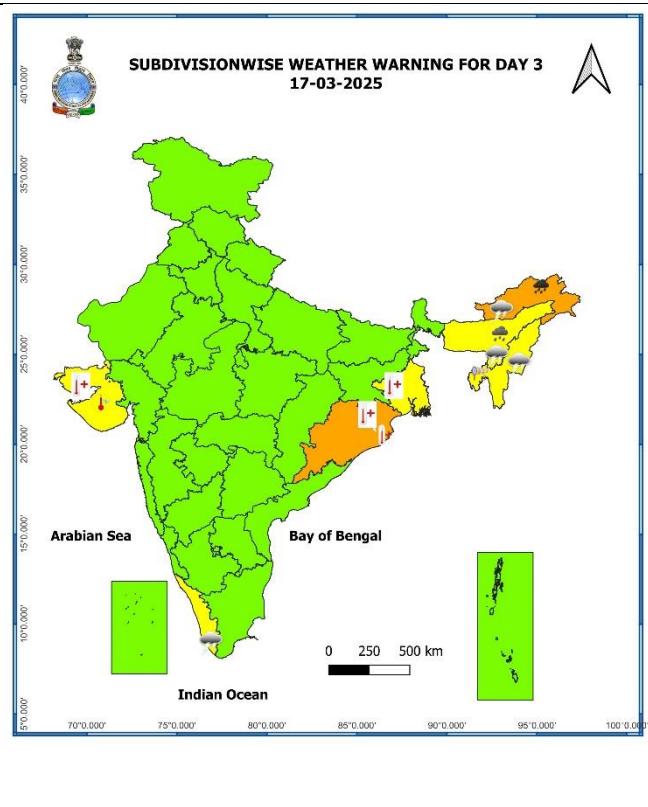
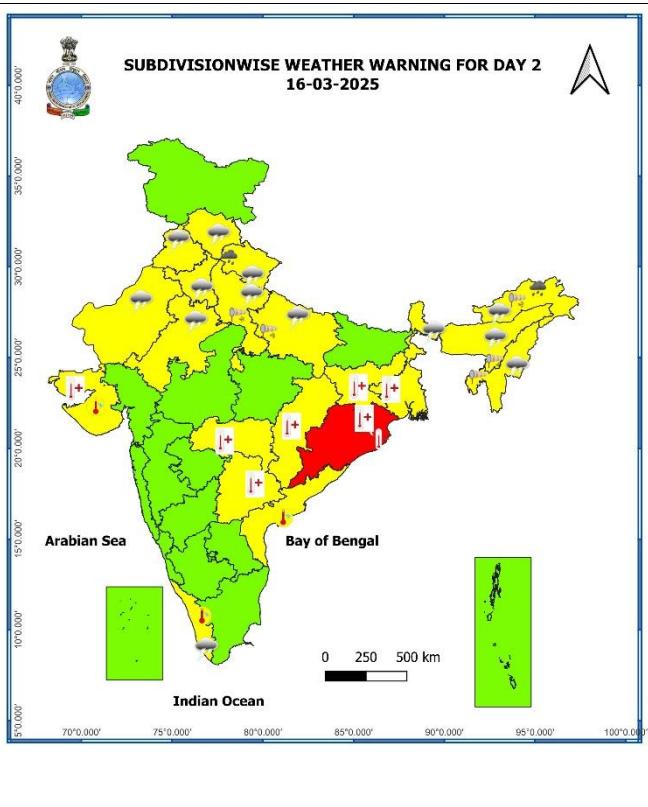
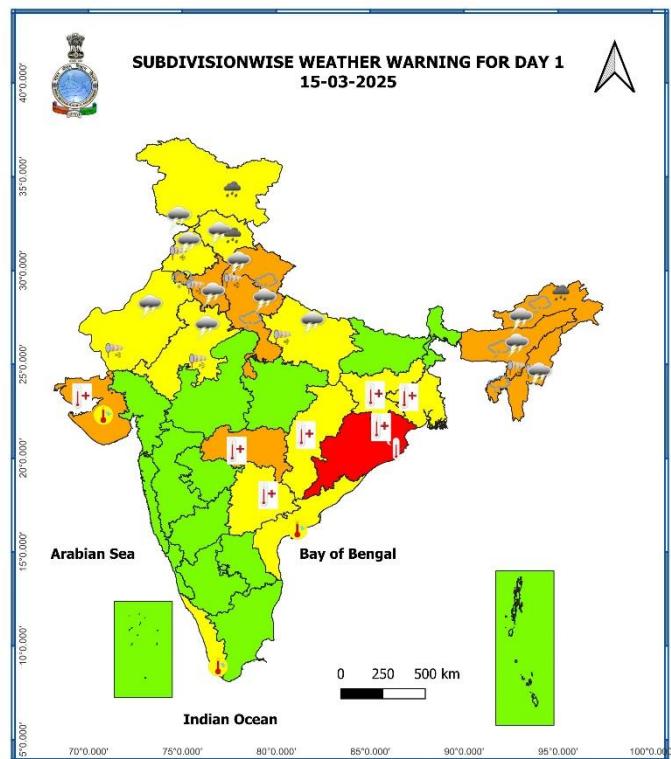


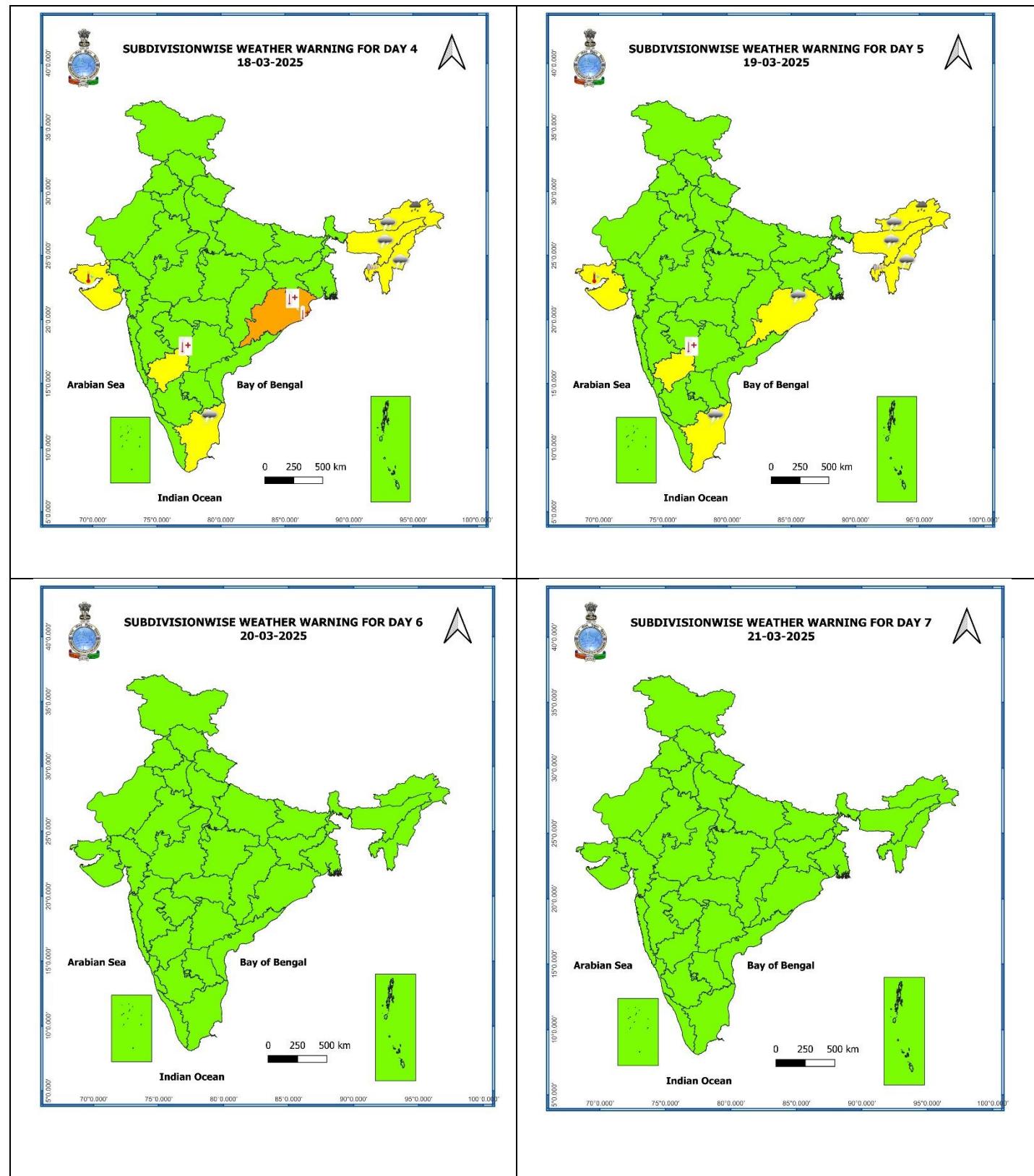
Fig. 2: Departure of Maximum Temperatures



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

- 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 15th Mar. to 18th Mar. 2025**Past Weather:**

There has been a rise in minimum and maximum temperatures upto 02°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 34 to 36°C and 18 to 19°C respectively. The minimum temperature was above normal upto 04°C and maximum temperature was above normal upto 07°C at most places. Mainly clear sky conditions with predominant surface wind from the southeast direction with wind speeds less than 10 to 12 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind speed less than 14 kmph from the northeast direction prevailed over the region in the forenoon today.

Weather Forecast:

15.03.2025: Partly cloudy sky. Very light to light rain accompanied with thunderstorm, lighting towards afternoon/evening and gusty winds (speed 30 – 40 kmph) likely. The maximum temperature over Delhi is likely to be in the range of 32 to 34°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 14 kmph till evening. It would increase thereafter becoming less than 16 kmph from the northeast direction during the night.

16.03.2025: Partly cloudy sky. Mist likely in the morning. Possibility of very light rain/drizzle. Strong surface winds (speed 25-35kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 31 to 33°C and 16 to 18°C respectively. The predominant surface wind will likely be from the north direction with a wind speed of 12-14 kmph during morning hours. The wind speed will gradually increase thereafter becoming, 18-20 kmph from the northwest direction during the afternoon. It will decrease becoming less than 14 kmph from the northwest direction during evening and night.

17.03.2025: Mainly clear sky. Mist likely in the morning. Strong surface winds (speed 25-35kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 30 to 32°C and 16 to 18°C respectively. The predominant surface wind will likely be from the northwest direction with a wind speed of 06-08 kmph during morning hours. The wind speed will gradually increase becoming 14-16 kmph from the northwest direction in the afternoon. It will decrease becoming less than 08 kmph from the northwest direction during evening and night.

18.03.2025: Mainly clear sky. Mist likely in the morning. Strong surface winds (speed 25-35kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 31 to 33°C and 15 to 17°C respectively. The predominant surface wind will likely be from the northwest direction with a wind speed of 06-08 kmph during morning hours. The wind speed will gradually increase becoming 16-18 kmph from the northwest direction in the afternoon. It will increase becoming less than 10 kmph from the north direction during evening and night.

Impact expected and action suggested due to thunderstorm accompanied with lightning/gusty winds over Northwest India on 15th & 16th and over Northeast India during next 5 days

- ❖ **Impact expected:**
 - ❖ Strong wind may damage plantation, horticulture and standing crops.
 - ❖ Partial damage to vulnerable structures due to strong winds.
 - ❖ Minor damage to kutcha houses/walls and huts.
 - ❖ Loose objects may fly.

- ❖ **Action suggested:**
 - ❖ Stay indoors, close windows & doors and avoid travel if possible.
 - ❖ Take safe shelters; do not take shelter under trees.
 - ❖ Do not lie on concrete floors and do not lean against concrete walls.
 - ❖ Unplug electrical/ electronic appliances.
 - ❖ Immediately get out of water bodies.
 - ❖ Keep away from all the objects that conduct electricity.

Impact & Action Suggested due to heavy rainfall/ snowfall over;

- (i) **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 15th and over Uttarakhand on 16th March.**
- (ii) **Arunachal Pradesh during 15th-19th March with very heavy rainfall on 17th March and over Assam & Meghalaya on 17th March.**

A. Impact Expected

- ✓ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ✓ Occasional reduction in visibility due to heavy rainfall.
- ✓ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- ✓ Minor damage to kutcha roads.
- ✓ Possibilities of damage to vulnerable structure.
- ✓ Localized Landslides/Mudslides
- ✓ Damage to horticulture and standing crops in some areas due to inundation.
- ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

B. Action Suggested

- ✓ Check for traffic congestion on your route before leaving for your destination.
- ✓ Follow any traffic advisories that are issued in this regard.
- ✓ Avoid going to areas that face the water logging problems often.
- ✓ Avoid staying in vulnerable structure.

Impact expected and action suggested due to Heat wave to severe heat wave conditions likely at isolated places over Odisha on 15th & 16th; Saurashtra & Kutch on 15th March.; Heat wave to severe heat wave conditions likely at isolated places over Vidarbha, Chhattisgarh, Jharkhand, north Telangana on 15th & 16th; Gangetic West Bengal during 15th-17th; Saurashtra & Kutch on 16th & 17th; Odisha on 17th & 18th; North Interior Karnataka on 18th & 19th March.

Orange alert Areas

- ✓ High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- ✓ High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- ✓ Avoid heat exposure- keep cool. Avoid dehydration.
- ✓ Drink sufficient water- even if not thirsty.

- ✓ Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

Yellow alert Areas

- ✓ Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- ✓ Avoid heat exposure.
- ✓ Wear lightweight, light colour, loose, cotton clothes.
- ✓ Cover your head, use a cloth, hat or umbrella.

Agromet advisories for likely impact of Heavy Rainfall / Hailstorm / Heat Wave

- In **Arunachal Pradesh, Nagaland, Manipur, Uttarakhand, Haryana and West Uttar Pradesh**, use hail net and hail caps to prevent mechanical damage in orchards due to hailstorms.
- In **Arunachal Pradesh, Jammu & Kashmir, Himachal Pradesh and Uttarakhand**, make provision to drain out excess water from standing crop and vegetable fields. Postpone land preparation and sowing of *Jhum* rice and maize in **Arunachal Pradesh**.
- In **Odisha, Jharkhand, Gangetic West Bengal, Saurashtra & Kutch, Vidarbha, Chhattisgarh and North Telangana**, apply light and frequent irrigation to the standing crops, vegetables and orchards in the evening to protect them from adverse impacts of heat wave.
- 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 to avoid lodging.
- In the regions of heavy snowfall, shake the fruit-bearing trees to remove snow immediately from the branches.

Livestock and Fishery

- Keep the animals inside the shed during heavy rainfall/hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also provide clean, hygienic and plenty of drinking water to animals.

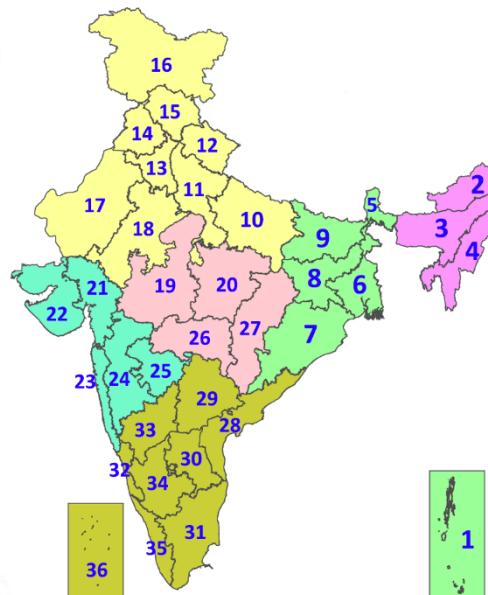
Legends & abbreviations:

- ❖ **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.



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. झारखण्ड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखण्ड
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
34. आतंरिक दक्षिणी कर्नाटक
35. केरल और माहे
36. लक्ष्मीप



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



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



DEFINITION/CRITERIA

Rain/ Snow *

Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm*
Extremely Heavy: > 204.4 mm/cm *

Heat Wave

When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions
 (a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .

Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.

Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $>4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$

Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

Severe Warm Night: When minimum temperature departure $>6.4^{\circ}\text{C}$.

Cold Wave

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.
 (a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

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

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$

Cold Day

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions
 Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{ km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres

Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)

Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.

Frost

Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)

Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 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

(Service to the Nation since 1875)

Hot and Humid: When maximum temperatures remain 3°C above normal along with the above normal relative humidity.