



**Government of India
Ministry of Earth Sciences
India Meteorological Department**



Press Release

Date: 22nd April, 2025

Time of Issue: 1345 hours IST

**Subject: i) Heat wave conditions likely over Central India and plains of Northwest India till 28th and East India till 26th April, 2025;
ii) Heavy to very heavy rainfall spell likely to continue over Northeast India till 27th April, 2025.**

i. Realised weather during past 24 hours till 0830 hours IST of today, the 22nd April 2025 (Annexure I):

- ❖ **Thunderstorm** accompanied with Squally/Gusty winds prevailed at isolated places Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh, Madhya Pradesh, West Bengal & Sikkim, Odisha, Northeast India and south peninsular India.
- ❖ **Hailstorm** occurred at isolated places over Jammu-Kashmir, Himachal Pradesh, Northwest Uttar Pradesh, North Punjab and Telangana.
- ❖ **Heavy rainfall** recorded at isolated places over Sikkim, Assam & Meghalaya and Tripura.
- ❖ **Heat wave conditions** prevailed in isolated pockets of Northeast Madhya Pradesh.
- ❖ **Warm night conditions** prevailed at isolated places over East Uttar Pradesh.

For more details of realised weather, kindly refer [Annexure I](#)

Temperature:

- ❖ Maximum Temperature observations during past 24 hours till 0830 hours IST of today are appended in [Annexure II](#).

ii. Weather Systems, Forecast and Warnings (refer to [Annexure III & IV](#)):

- ❖ An upper air cyclonic circulation lies over northwest Bihar in lower tropospheric levels. A north-south trough runs from this cyclonic circulation to Gulf of Mannar and an east-west trough runs from this cyclonic circulation to Manipur in lower tropospheric levels. Another upper air cyclonic circulation lies over northeast Assam in lower tropospheric levels.
- ❖ Under the influence of these systems:
 - ✓ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Northeast India during next 7 days.
 - ✓ **Heavy to very heavy rainfall** likely over Assam & Meghalaya, Arunachal Pradesh during 22nd-27th and **heavy rainfall** over Nagaland, Manipur, Mizoram & Tripura on 23rd & 25th April.
 - ✓ **Thundersquall (speed reaching 50-60 kmph)** very likely over Assam & Meghalaya today.
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Karnataka,

Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe; **with lightning** over Tamilnadu Puducherry & Karaikal during next 7 days and over East India during 26th-28th April.

- ❖ A fresh Western Disturbance is likely to affect Western Himalayan region from 24th April, 2025. Under its influence;
 - ✓ **Isolated to scattered** light rainfall with **thunderstorm & lightning** likely over Western Himalayan Region during 24th-26th April.

Temperature Forecast:

- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Northwest India during next 5 days and no significant change during subsequent 2 days.
- ❖ Rise in maximum temperatures by about 2°C likely over Central India during next 2 Days and no significant change during subsequent 5 days.
- ❖ Rise in maximum temperatures by about 2-3°C likely over Gujarat during next 3 Days and no significant change during subsequent 4 days.
- ❖ Gradual rise in maximum temperatures by 3-5°C likely over East India during next 3 Days and no significant change during subsequent 2 days; fall by 3-4°C for subsequent 2 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

Heat wave, warm night and Hot & Humid weather warning:

- ❖ **Heat wave conditions** very likely in isolated pockets over East Madhya Pradesh during 22nd-28th; West Uttar Pradesh during 22nd-27th; East Uttar Pradesh, Bihar, Odisha during 22nd -26th; Punjab, Haryana & Delhi, Rajasthan, West Madhya Pradesh during 24th-28th; Gangetic West Bengal during 23rd-26th and Jharkhand on 25th & 26th April.
- ❖ **Warm night conditions** very likely in isolated pockets over Bihar during 22nd-25th; Odisha during 22nd-24th; East Uttar Pradesh on 22nd & 23rd and Gangetic West Bengal on 23rd & 24th April.
- ❖ **Hot & humid weather** is likely to prevail over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema during 22nd-26th; Jharkhand, Gujarat State during 22nd-24th; Konkan & Goa on 22nd & 23rd; Madhya Maharashtra, Marathawada during 23rd-25th April.

iv. Weather conditions and forecast over Delhi/NCR during 22nd April to 24th April, 2025 (Annexure V)

For more details, kindly refer National Weather Bulletin:

https://mausam.imd.gov.in/responsive/all_india_forecast_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:

- ❖ **Light/moderate Rainfall with thunderstorm & lightning observed** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Assam & Meghalaya, Andaman & Nicobar Islands; at a few places over Lakshadweep, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim; at isolated places over Uttarakhand, Punjab, West Uttar Pradesh, Gangetic West Bengal, Bihar, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, south Tamil Nadu, Kerala & Mahe and Karnataka.

Rainfall recorded (in cm):

- ❖ **Sub-Himalayan West Bengal & Sikkim:** Rongli (dist Pakyong) 9, Tadong (dist Gangtok) 8, Gangtok (dist Gangtok) 7;
- ❖ **Assam & Meghalaya:** Bokajan AEGCL (dist Karbi Anglong) 9, Barpathar (dist Golaghat) 6, Shilloani AGRI (dist Nagaon) 6, Morigaon (dist Morigaon) 6, Bhaghmara (dist South Garo Hills) 6, Barpeta (dist Barpeta) 5, Bhaghmara (dist South Garo Hills) 5, Panbari (dist Chirang) 5, Beky Rly bridge (dist Barpeta) 5;
- ❖ **Tripura:** Khumlung Arg (dist West Tripura) 9,
- ❖ **Arunachal Pradesh:** Palin (dist Kra Daddi) 6;
- ❖ **Telangana:** Jagadevapur (dist Siddipet) 4, Pargi (dist Vikarabad) 3;
- ❖ **Tamil Nadu:** Nanguneri (dist Tirunelveli) 3.

Realised Gusty wind since last 24 hours (till 0830 hrs IST) (Max Gust in knots, time in IST)

- ❖ **Jammu & Kashmir:** REASI (31kt, 1330), Jammu (29kt, 1715), Kathua (25kt, 1415)
- ❖ **Karnataka:** CHIKMAGALUR (33kt, 2145)
- ❖ **Tamil Nadu:** Thoothukudi (25kt, 1615)
- ❖ **Kerala:** Thrissur (30kt, 1500)
- ❖ **Telangana:** Siddipet (29kt, 1730)
- ❖ **East Madhya Pradesh:** Singrauli (25kt, 1445)
- ❖ **Gangetic West Bengal:** North twenty-four Parganas (25kt, 0030)
- ❖ **Nagaland:** Tuensang (28kt, 1645)
- ❖ **Arunachal Pradesh:** Shiyomi (25kt, 1315)
- ❖ **East Rajasthan:** Jhunjhunu (25kt, 1545)
- ❖ **Uttarakhand:** Dehradun (29kt, 1215)
- ❖ **Himachal Pradesh:** Kullu (30kt, 1215)
- ❖ **Punjab:** Hoshiarpur (29kt, 1230), Pathankot (26kt, 1500)

Temperature observations during past 24 hours till 0830 hours IST of today:

- ❖ **Yesterday**, Maximum Temperatures had risen by **1°C -3°C** in some places of Delhi, Uttar Pradesh, Bihar, interior Odisha, Jharkhand, South Interior Karnataka and they have fallen by **1°C -3°C** at some places of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, south Haryana.
- ❖ **Yesterday**, Maximum Temperatures were in the range of 41°C to 45°C at many places over East Madhya Pradesh, Vidarbha, Odisha; at a few places over Delhi, West Madhya Pradesh, East Uttar Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Telangana, Chhattisgarh; at isolated places over Haryana, West Rajasthan, West Uttar Pradesh and in the range of 36°C to 40°C at many places over Bihar, Jharkhand, Gangetic West Bengal, Gujarat Region, Rayalaseema, Tamil Nadu, Puducherry & Karaikal; at a few places over Punjab, East Rajasthan, North Interior Karnataka, Coastal Andhra Pradesh & Yanam; at isolated places over Konkan & Goa, Kerala & Mahe. Yesterday, **the highest maximum temperature of 45.6°C was reported at Chandrapur (Vidarbha)** over the country.
- ❖ Yesterday, **Maximum Temperatures were above normal by 2-4°** at some places over Punjab, Haryana & Delhi, East Madhya Pradesh, Vidarbha, Chhattisgarh, Marathawada, Arunachal Pradesh, Assam & Meghalaya; at isolated places over Bihar These **were below normal 2-4°C** at some places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and normal over rest parts of the country (**Fig. 2**)

Fig. 1: Maximum Temperatures

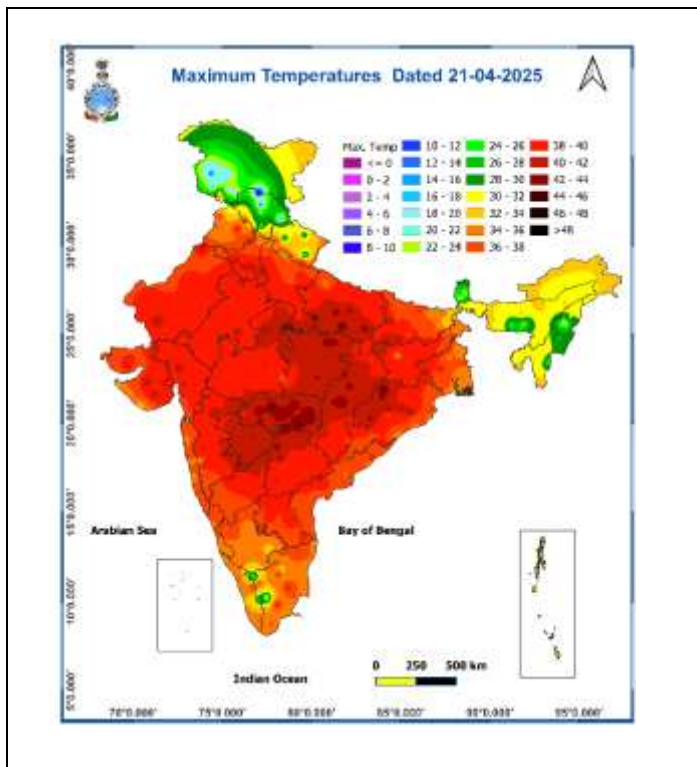
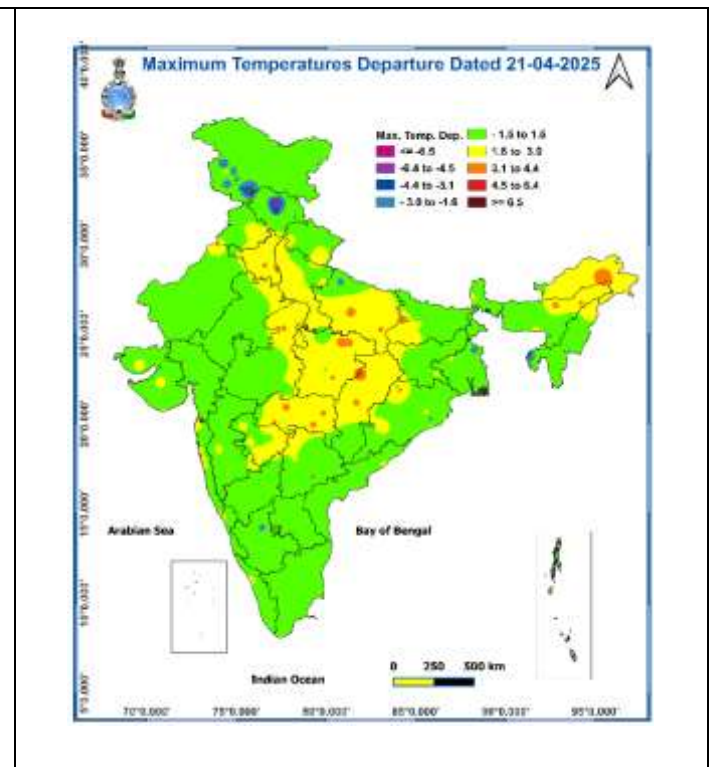
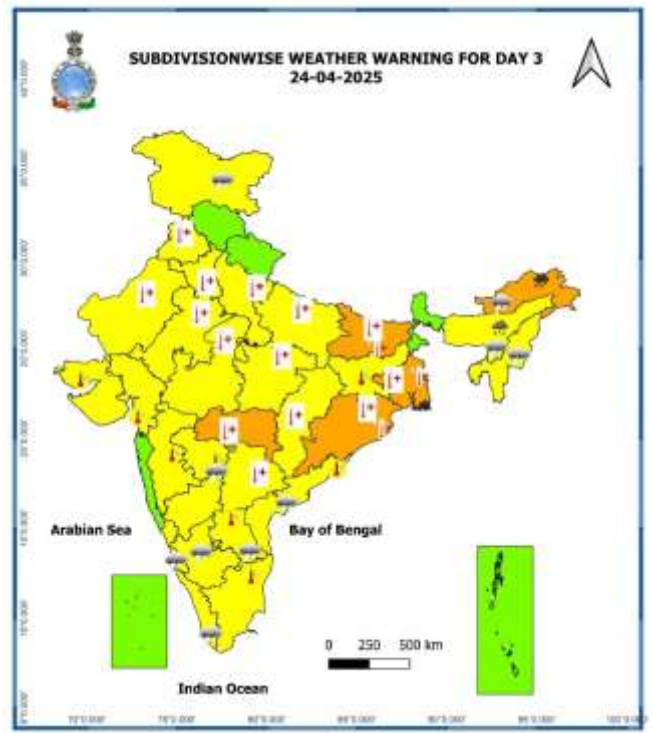
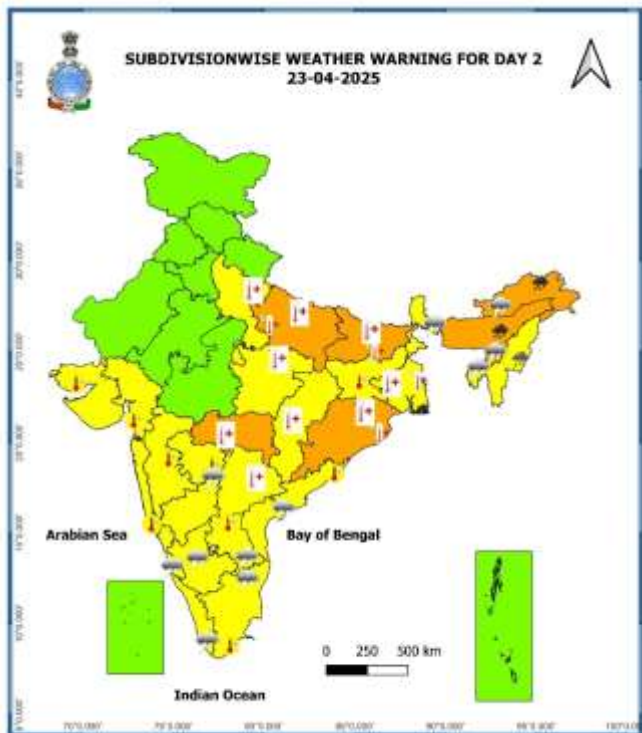
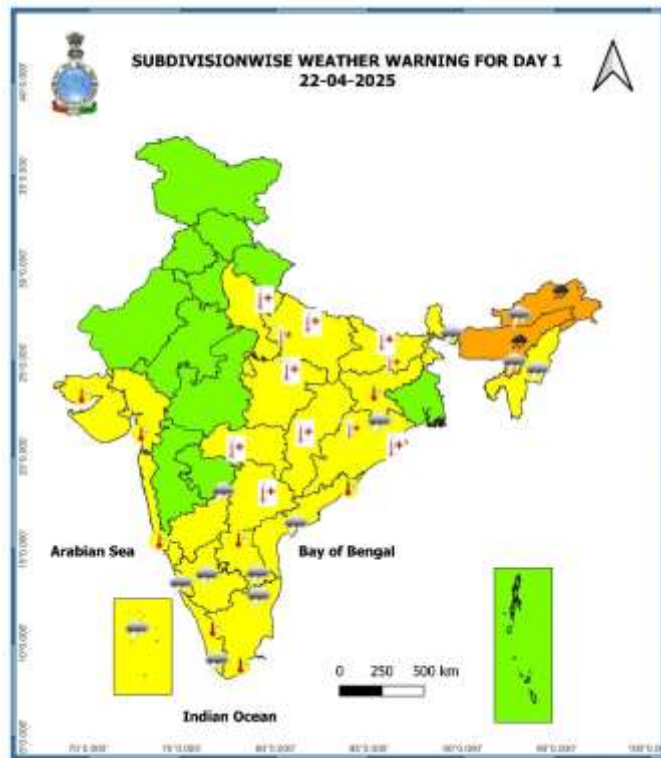


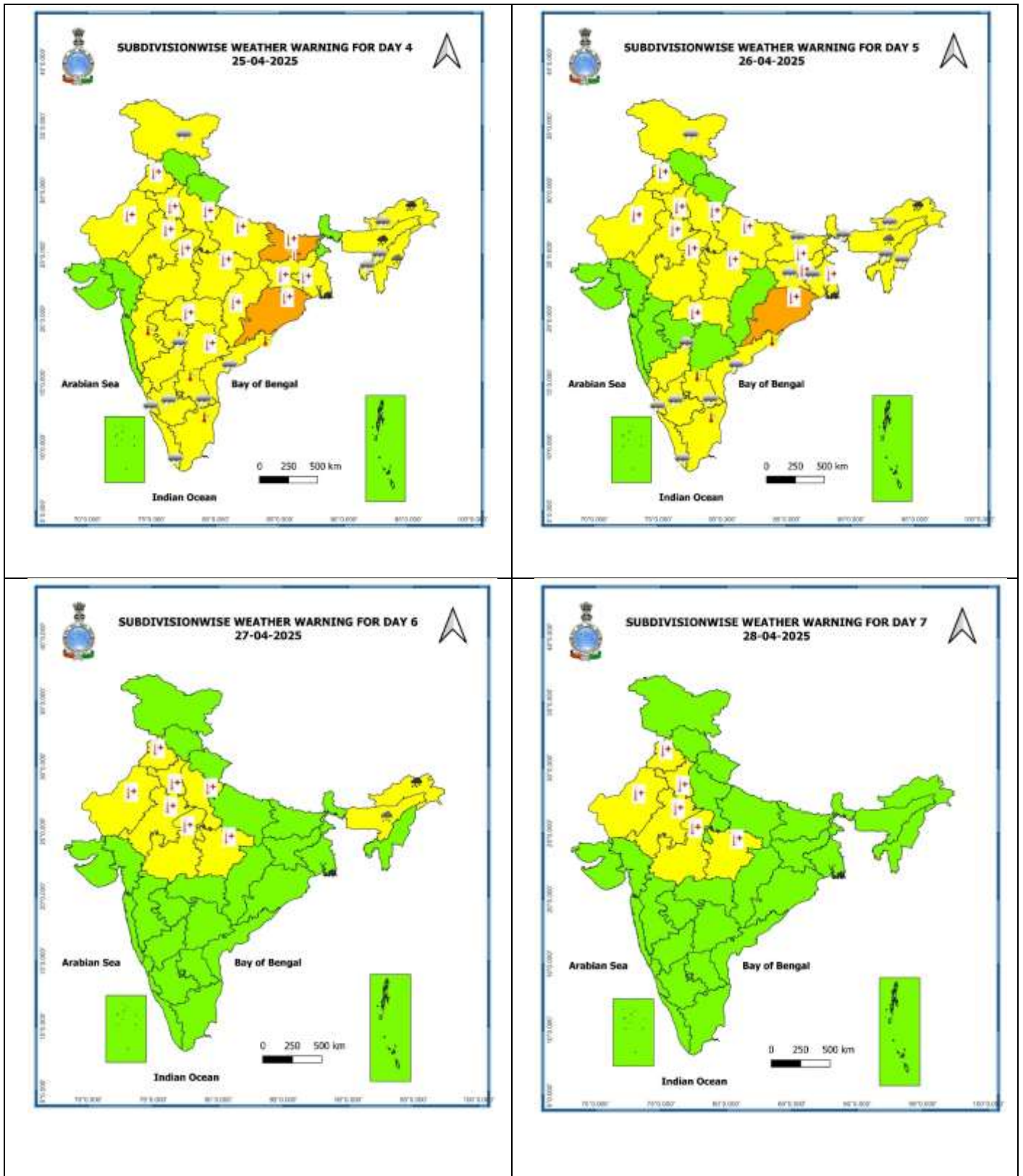
Fig. 2: Departure of Maximum Temperatures



7 Days Rainfall Forecast								
S. No.	Subdivision	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	SCT	SCT	SCT	ISOL	SCT
2	ARUNACHAL PRADESH	FWS	FWS	WS	WS	WS	FWS	FWS
3	ASSAM & MEGHALAYA	WS	WS	WS	WS	WS	WS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	SCT	FWS	SCT	SCT	SCT	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	SCT	SCT	ISOL	SCT	SCT	SCT
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	ISOL	FWS	FWS
7	ODISHA	ISOL	DRY	ISOL	ISOL	ISOL	SCT	SCT
8	JHARKHAND	DRY	DRY	DRY	DRY	ISOL	ISOL	SCT
9	BIHAR	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	DRY	DRY	ISOL	ISOL	ISOL	DRY
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	DRY	ISOL	ISOL	ISOL	ISOL	DRY
16	JAMMU & KASHMIR AND LADAKH	ISOL	ISOL	SCT	ISOL	ISOL	DRY	DRY
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
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	ISOL	DRY	DRY	DRY	ISOL	DRY	DRY
25	MARATHAWADA	ISOL	DRY	DRY	DRY	ISOL	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
27	CHHATTISGARH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
35	KERALA & MAHE	FWS	SCT	SCT	SCT	SCT	SCT	SCT
36	LAKSHADWEEP	FWS	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 22 to 25 Apr. 2025

Past Weather:

There has been fall in minimum temperature upto 05°C and rise in maximum temperature upto 01°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 40 to 42°C and 18 to 23 °C respectively. The minimum temperature was below normal upto 3°C and maximum temperature was above normal upto 3°C at many places. Predominant surface wind from the southwest direction with wind speeds less than 18 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind speed less than 10 kmph from the southwest direction prevailed over the region in the forenoon today.

Weather Forecast:

22.04.2025: Mainly clear sky. Occasional sustained surface winds (speed 10-20 kmph). The maximum temperature over Delhi is likely to be in the range of 39 to 41°C. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 14 kmph till evening. It would decrease becoming less than 10 kmph from the northwest direction during the night.

23.04.2025: Mainly clear sky. Occasional sustained surface winds (speed 10-20 kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 40 to 42°C and 22 to 24°C respectively. The predominant surface wind will likely be from the northwest direction with a wind speed of 10-12 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 12 kmph from the northwest direction during evening and night.

24.04.2025: Mainly clear sky. Isolated heat wave likely. The maximum and minimum temperatures over Delhi are likely to be in the range of 41 to 43°C and 22 to 24°C respectively. The predominant surface wind will likely be from the west direction with a wind speed of 08-10 kmph during morning hours. The wind speed will gradually increase becoming 12-16 kmph from the northwest direction in the afternoon. It will decrease becoming less than 10 kmph from the west direction during evening and night.

25.04.2025: Mainly clear sky. Isolated heat wave likely. Occasional sustained surface winds (speed 10-20 kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 41 to 43°C and 24 to 26°C respectively. The predominant surface wind will likely be from the west direction with a wind speed less than 12 kmph during morning hours. The wind speed will gradually increase becoming 15-20 kmph from the west direction in the afternoon. It will decrease becoming less than 12 kmph from the west direction during evening and night.

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty & Squally winds & Hailstorm over

- ✓ **Squally winds over Assam & Meghalaya on 22nd April.**

Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- 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 expected and action suggested due to Heat wave conditions over Central India and plains of Northwest India till 28th and East India till 26th April.

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.

Impact & Action Suggested due to heavy to very heavy rainfall over Arunachal Pradesh during 22nd-26th and Assam & Meghalaya on 22nd & 23rd April.

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).

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.

Agromet advisories for likely impact of Hailstorm / Heavy Rainfall / Gusty Winds / Heat wave

- In **North Eastern States**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Madhya Pradesh, Chhattisgarh, Vidarbha, Uttar Pradesh, Rajasthan, Haryana, Punjab, Odisha, Bihar, Jharkhand, Gangetic West Bengal and Telangana**, apply light and frequent irrigation to standing crops, vegetables and orchards in the evening to protect them from adverse effects of heat waves and high temperatures.
- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.

Livestock / Poultry / Fishery

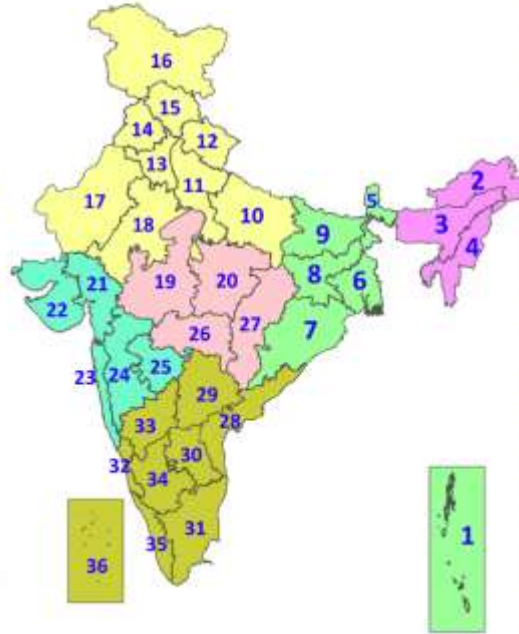
- Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also, provide clean, hygienic and plenty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

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

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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DEFINITION/CRITERIA

Rain/ Snow *	<p>Heavy: 64.5 to 115.5 mm/cm *</p> <p>Very Heavy: 115.6 to 204.4 mm/cm*</p> <p>Extremely Heavy: > 204.4 mm/cm *</p>
Heat Wave	<p>When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions</p> <p>(a) Based on Departure from normal</p> <p>Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C.</p> <p>Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$</p> <p>(b). Based on Actual maximum temperature</p> <p>Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.</p> <p>Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$</p> <p>(c). Criteria for heat wave for coastal stations</p> <p>When maximum temperature departure is $>4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$</p>
Warm Night	<p>When maximum temperature remains 40°C</p> <p>Warm Night: When minimum temperature departure 4.5°C to 6.4°C.</p> <p>Severe Warm Night: When minimum temperature departure $>6.4^{\circ}\text{C}$.</p>
Cold Wave	<p>When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.</p> <p>(a). Based on departure</p> <p>Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C.</p> <p>Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$</p> <p>(b) Based on actual Minimum Temperature (for Plains only)</p> <p>Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$</p> <p>Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$</p> <p>(c) For Coastal Stations</p> <p>When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$</p>
Cold Day	<p>When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions</p> <p>Based on departure</p> <p>Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C.</p> <p>Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$</p>
Fog	<p>Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$</p> <p>Moderate Fog: When the visibility between 500-200 metres</p> <p>Dense Fog: when the visibility between 50- 200 metres</p> <p>Very Dense Fog: when the visibility < 50 metres</p>
Thunderstorm	<p>Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)</p>
Dust/Sand Storm	<p>An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.</p>
Frost	<p>Ice deposits on ground</p> <p>Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)</p>
Squall	<p>A strong wind that rises suddenly, lasts for atleast 1 minute.</p> <p>Moderate: Wind speed 52-61 kmph</p> <p>Severe: Wind speed 62-67 kmph</p> <p>Very Severe: Wind speed >67 kmph</p>
Sea State	<p>Effect of various waves in the sea over specific area</p> <p>Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre</p> <p>High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre</p> <p>Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre</p>
Cyclone	<p>Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)</p> <p>Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)</p> <p>Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)</p> <p>Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)</p> <p>Super Cyclone Storm: Wind speed >220 kmph (>119 knots)</p>

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