



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 13th March 2026
Time of Issue: 1415 hours IST

Subject: i) Heat wave to severe heat wave conditions likely to continue over Madhya Pradesh, Vidarbha, Konkan, Saurashtra & Kutch on 13th; Odisha on 13th & 14th; Jharkhand on 14th & 15th March and abate thereafter. (ii) Isolated heavy to very heavy rainfall likely over Arunachal Pradesh on 13th March & heavy rainfall during 14th -16th. Isolated heavy rainfall also likely over Sub-Himalayan West Bengal & Sikkim on 13th & 16th; Assam & Meghalaya during 13th-15th March. (iii) Isolated thunderstorm, lightning & gusty winds along with hailstorm likely over Western Himalayan Region and adjoining plains on 15th & 16th March.

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

- ❖ **Heat wave conditions** prevailed in some pockets of Vidarbha; in isolated pockets of West Madhya Pradesh and Saurashtra & Kutch.
- ❖ **Very heavy rainfall (12-20 cm)** has been recorded at isolated places over Assam and Sub-Himalayan West Bengal & Sikkim.

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

- ❖ **Maximum/day temperatures** were in the range of 38-42°C at many places over Gujarat state, Vidarbha, Odisha, Rayalaseema, Marathwada; at a few places over Madhya Maharashtra, Telangana, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Madhya Pradesh; at isolated places over Tamil Nadu, Puducherry & Karaikal, Konkan & Goa, East Rajasthan; 35-38°C at many places over East Uttar Pradesh; at a few places over West Rajasthan, Kerala & Mahe; at isolated places over Delhi, North Interior Karnataka, Telangana. **Yesterday, the highest maximum temperature of 42.2°C was reported at Amravati (Vidarbha).**
- ❖ **Maximum Temperatures/day temperatures** were markedly above normal (> 5.1°C) at a few places over Haryana-Chandigarh-Delhi, Punjab; at isolated places over Uttar Pradesh, East Rajasthan, Vidarbha; appreciably above normal (3.1°C to 5.0°C) at most places over East Madhya Pradesh, Gujarat state; at many places over West Madhya Pradesh; at a few places over Marathwada, Madhya Maharashtra, Konkan & Goa, West Rajasthan; at isolated places over Chhattisgarh, Telangana, Odisha, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; above normal (1.6°C to 3.0°C) at a few places over Coastal Andhra Pradesh & Yanam, Bihar, Jharkhand; at isolated places over Rayalaseema, North Interior Karnataka and near normal over rest parts of the country.
- ❖ **Minimum/night temperatures** were in the range of 14-18°C over Punjab, Haryana, Chandigarh, East Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Jharkhand, Vidarbha, Maharashtra, Sikkim. They were in the range of 18-22°C over remaining parts of the plains of the country, except Bihar, Gangetic West Bengal, Konkan & Goa, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Tamil Nadu, Andaman & Nicobar Islands and Lakshadweep, where they are in the range of 22-27°C. **Today, the lowest minimum temperature of 12.0°C was observed at Gurdaspur (Punjab) over the plains of India.**
- ❖ **Minimum/night Temperature** were markedly above normal (5.1°C or more) over West Rajasthan, Bihar; appreciably above normal (3.1°C to 5.0°C) over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) over Madhya Pradesh, Odisha, Gujarat State, Maharashtra, Assam & Meghalaya, Telangana and near normal over rest parts of the country.

Weather Systems, Forecast and Warnings (refer to ANNEXURE I & II):

- ❖ The **Western Disturbance** as a trough in middle level tropospheric westerlies roughly along Long. 74°E to the north of Lat. 34°N.
- ❖ A **cyclonic circulation** lies over Central Assam & neighbourhood in lower tropospheric levels.
- ❖ A **cyclonic circulation** lies over Lakshadweep and adjoining Comorin area and a **trough** in easterlies runs from this cyclonic circulation to Marathwada across, Kerala & interior Karnataka in lower tropospheric levels.

- ❖ A **trough** in lower-level westerlies runs roughly along Long. 90°E to the north of Lat. 22°N.
- ❖ A **trough** from runs from Jharkhand to Vidarbha across Chhattisgarh in lower tropospheric levels.
- ❖ A cyclonic circulation lies over Gulf of Mannar & neighbourhood in lower tropospheric levels.
- ❖ **Subtropical westerly Jet Stream** with core winds of the order of 95 knots at 12.6 km above mean sea level prevails over Northwest India.
- ❖ A fresh **Western Disturbance** is likely to affect Northwest India from 14th March 2026.

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

Northwest India:

- ✓ **Isolated light rainfall/snowfall** likely over Western Himalayan region till 14th March. Rainfall is likely to increase to **scattered to fairly widespread over the region during 15th-19th March. Thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Jammu-Kashmir-Ladakh, Himachal Pradesh on 15th & 16th and Uttarakhand on 14th March.
- ✓ **Isolated light rainfall with thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** also likely over Punjab, Haryana Chandigarh during 15th-19th; Uttar Pradesh on 15th & 16th; Rajasthan on 13th & 14th March.
- ✓ **Thundersquall** (wind speed reaching 50-60 kmph gusting to 70 kmph) very likely at isolated places over Uttarakhand on 15th & 16th March.
- ✓ Isolated **hailstorm** likely over Jammu-Kashmir-Ladakh, Himachal Pradesh on 15th; Uttarakhand, Punjab, Haryana, Chandigarh & East Uttar Pradesh on 15th & 16th; West Uttar Pradesh on 16th March.

Northeast India:

- ✓ **Fairly widespread to widespread light/moderate rainfall with thunderstorm & lightning** likely over Northeast India during 13th-19th March; with **gusty winds speed reaching (30-50 kmph)** over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 13th-15th March.
- ✓ Isolated **heavy rainfall/snowfall** very likely over Arunachal Pradesh during 13th-16th with **heavy to very heavy rainfall/snowfall** on 13th March.
- ✓ Isolated **heavy rainfall** very likely over Assam & Meghalaya during 13th-15th March.

East & Central India:

- ✓ **Isolated to Scattered light/moderate rainfall with thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over West Madhya Pradesh on 15th; East Madhya Pradesh on 15th & 16th; Vidarbha during 14th-17th; Odisha, Chhattisgarh & Jharkhand during 15th-17th; Sub-Himalayan West Bengal & Sikkim during 13th-19th; Gangetic West Bengal during 15th-17th & on 19th; Bihar during 15th-18th March.
- ✓ Isolated **heavy rainfall** very likely over Sub-Himalayan West Bengal & Sikkim on 13th & 16th March.

South Peninsular India:

- ✓ **Isolated light/moderate rainfall with thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Telangana during 15th-17th; with **thunderstorm & lightning** over Kerala & Mahe on 16th & 17th; Tamil Nadu and South Interior Karnataka on 17th; Coastal Andhra Pradesh & Yanam during 16th-19th; Rayalaseema during 17th-19th March.

West India:

- ✓ **Isolated light/moderate rainfall with thunderstorm & lightning** likely over Marathwada during 14th-19th and Madhya Maharashtra during 15th-17th March.

Forecast of maximum/day temperatures:

- ❖ Gradual rise in maximum temperature by 3-4°C likely over Western Himalayan region during next 2 days and gradual fall by 4-6°C during subsequent 5 days.
- ❖ Gradual fall in maximum temperature by 3-5°C likely over plains of Northwest India during next 7 days except over East Uttar Pradesh where no significant change in maximum temperatures likely during next 2 days and gradual fall by 2-4°C during subsequent 3 days and gradual rise by about 2°C thereafter.
- ❖ No significant change in maximum temperatures likely over Central India during next 24 hours; gradual fall by 3-4°C during subsequent 4 days and no significant change thereafter.
- ❖ Gradual rise in maximum temperature by 2-3°C likely over East India during next 2 days; gradual fall by 2-3°C during subsequent 2 days and no significant change thereafter.
- ❖ Gradual fall in maximum temperature by 2-4°C likely over Gujarat State during next 3 days and no significant change during subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over Maharashtra during next 2 days; gradual fall by 2-4°C during subsequent 3 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures likely over South Peninsular India during next 5 days.

Heat Wave, Hot & Humid weather Warnings:

- ❖ **Heat wave to severe heat wave conditions** very likely in isolated pockets over Himachal Pradesh on 13th & 14th March.
- ❖ **Heat wave conditions** likely in isolated pockets over Odisha on 13th & 14th; Madhya Pradesh, Vidarbha, Konkan, Saurashtra & Kutch on 13th; Jharkhand on 14th & 15th March.
- ❖ **Hot & humid conditions** very likely to prevail in isolated pockets over coastal areas of Gujarat State & Konkan & Goa on 13th; Kerala on 13th & 14th March.

Weather conditions and forecast over Delhi/NCR during 13th-16th March, 2026 (ANNEXURE III)

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>

For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php>

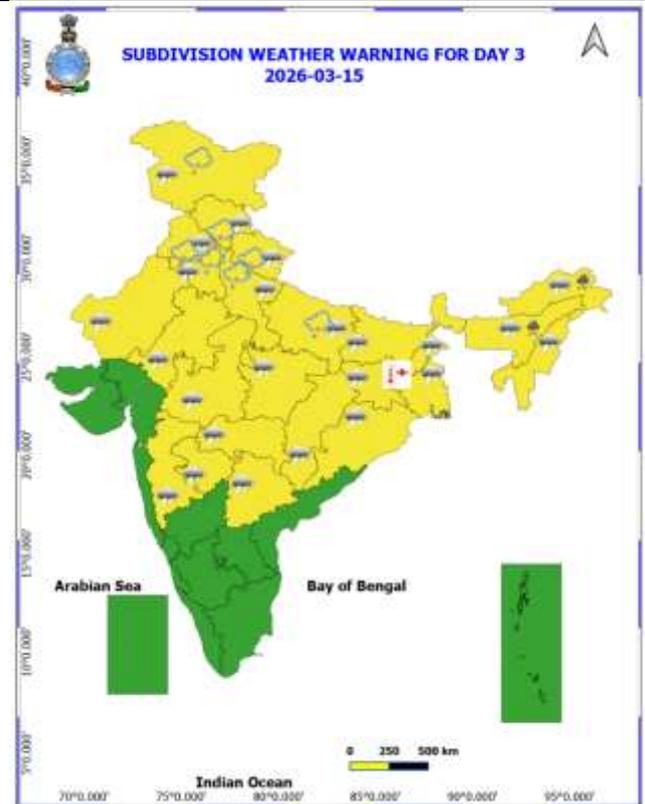
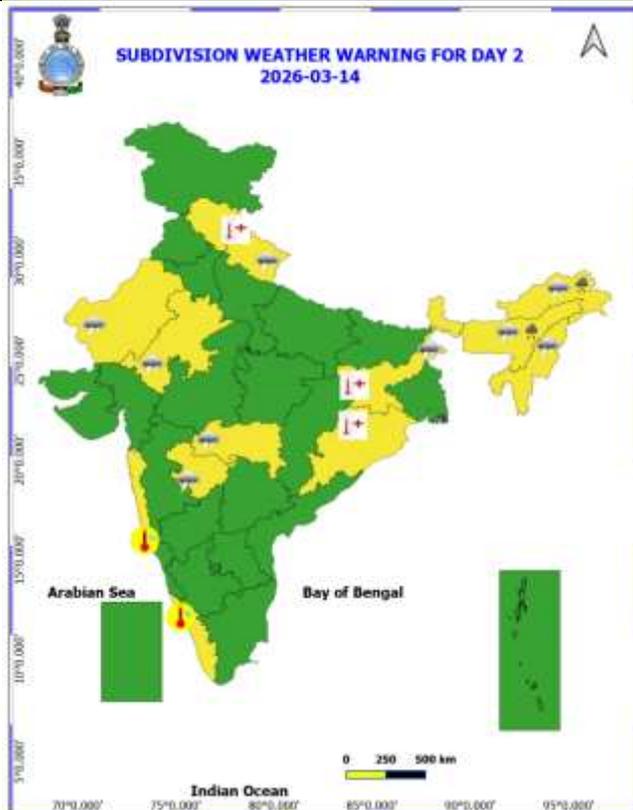
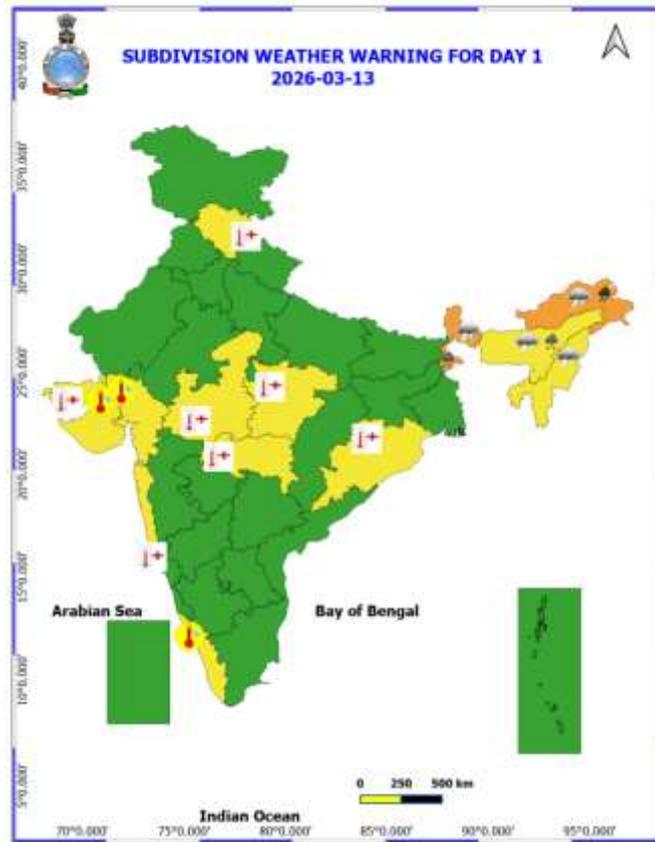
Significant rainfall recorded (in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today):

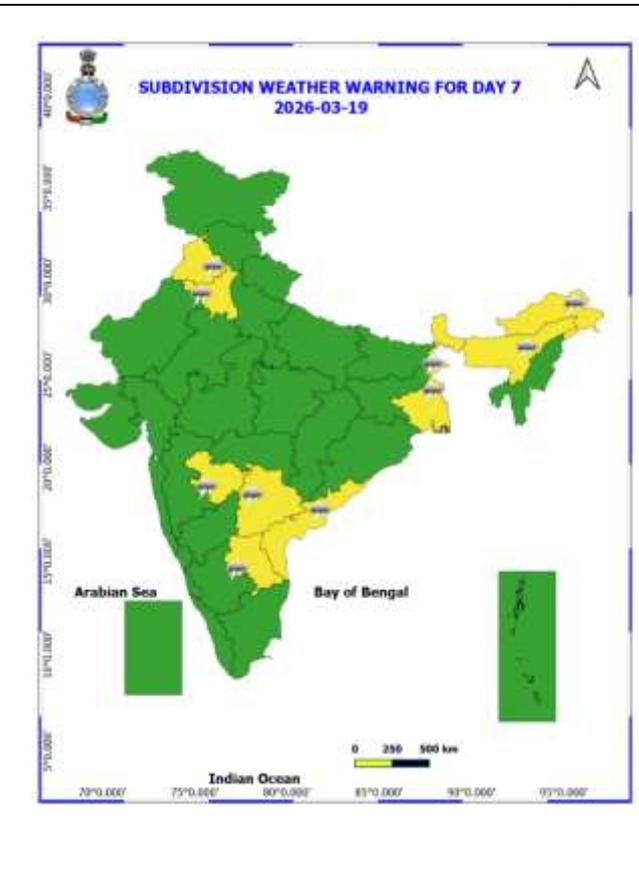
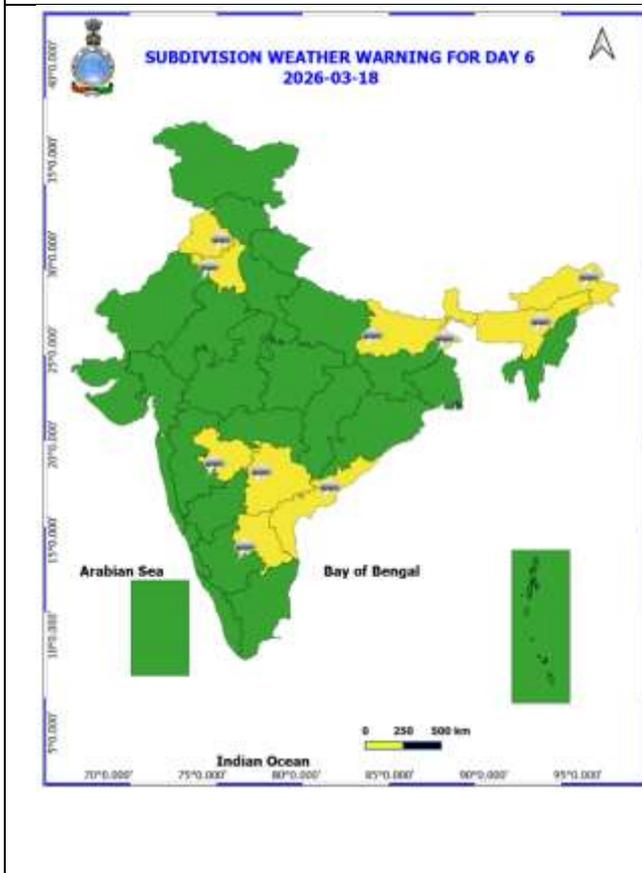
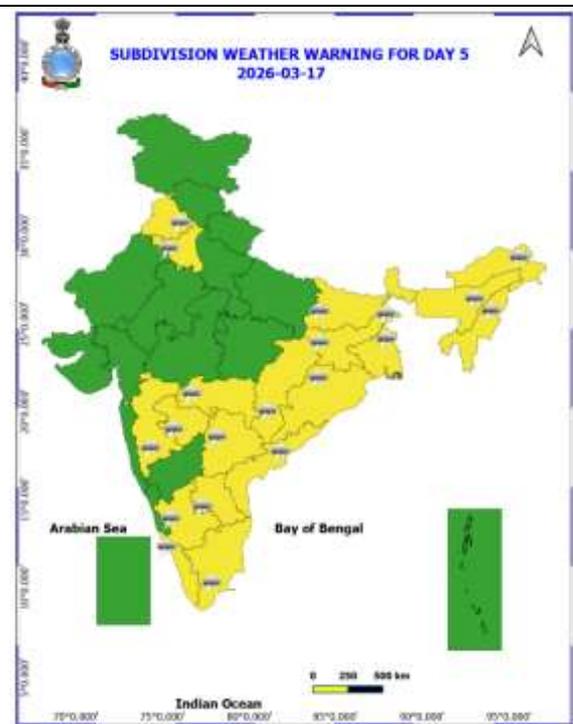
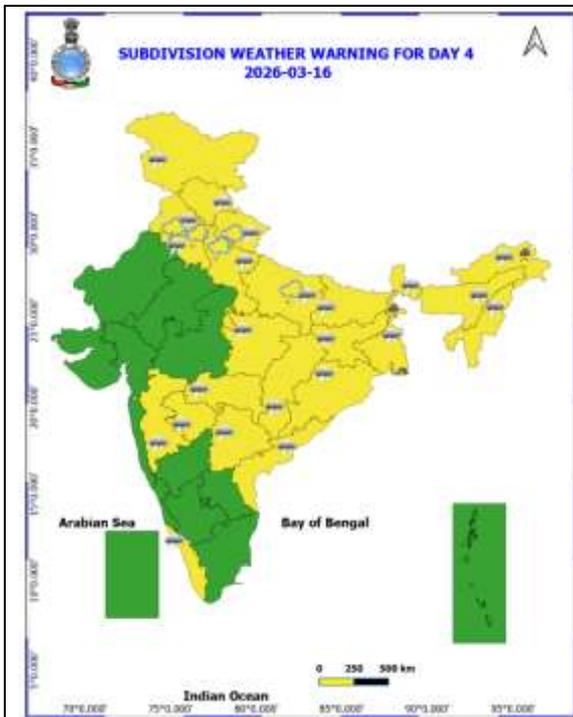
Sub-Himalayan West Bengal: Karballa Tea Estate (dist Jalpaiguri) 13; Hasimara (dist Alipurduar), Gairkata Tea Estate (dist Jalpaiguri) 12 Each; Rongo (dist Kalimpong), Banarhat High School (dist Jalpaiguri), Indong T.e. (dist Jalpaiguri), Palashbari Tea Estate (dist Jalpaiguri), Tra Nagrakata (dist Jalpaiguri), Mangan (dist Mangan), Beech Tea Garden (dist Alipurduar) 11 Each; Bhagatpur Tea Estate (dist Jalpaiguri), Diana Tea Estate (dist Jalpaiguri), Gandrapara Tea Garden (dist Jalpaiguri), Moraghat Tea Estate (dist Jalpaiguri), Nagarkata (dist Jalpaiguri), Jaybirpara Tea Estate (dist Alipurduar), Subhasini Tea Estate (dist Alipurduar) 10 Each; Singhik (dist Mangan), Suryasen Mahavidyalaya (dist Darjeeling), Mogulkata Tea Estate (dist Jalpaiguri), Jhallong (dist Kalimpong) 9 Each; Champasari (dist Darjeeling), Chalouni Tea Estate (dist Jalpaiguri), Ghatia T.e. (dist Jalpaiguri), Kurti T.e. (dist Jalpaiguri), Siliguri PTO (dist Darjeeling), Dima Tea Estate (dist Alipurduar) 8 Each; Jalpaiguri (dist Jalpaiguri), Chepan (dist Alipurduar), Bhatkawa Tea Estate (dist Jalpaiguri) 7 Each;

Assam & Meghalaya: Beki Mathungari (dist Barpeta), Aie Nh Xing (dist Bongaigaon) 13 Each; Goalpara PTO (dist Goalpara), Bhaghmara (dist South Garo Hills) 8 Each; Boky Rly. bridge (dist Barpeta), Bajali AWS (dist Bajali) 7 Each; Barpeta (dist Barpeta) 6; Manash Nh Xing (dist Barpeta), Rangia (dist Kamrup (rural)), Manikpur ARG (dist Bongaigaon), Panbari (dist Chirang) 5 Each;

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

- As the lead period increases forecast accuracy decrease.





- Action may be taken based on ORANGE AND REDCOLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Detailed districtwise MultiHazard weather warning for next five days available at <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 13th to 16th March 2026**Past Weather:**

There has been a rise in minimum temperatures by 1-2°C and a fall in the maximum temperatures by 1°C during the past 24 hours over Delhi. The maximum temperatures were in the range of 35-37 °C, and the minimum temperatures were in the range 18-20 °C, respectively, during the past 24 hours over Delhi. The minimum temperatures are markedly above normal (5.1°C or more) at many places and appreciably above normal (3.1°C to 5.0°C) at a few places over Delhi. The maximum temperatures were markedly above normal (5.1°C or more) at most places over Delhi. Partly cloudy sky with sustained surface wind from the west direction reaching up to 15 kmph, and occasional gusts up to 33 kmph prevailed during the past 24 hours. Partly cloudy sky with wind speed reaching up to 12 kmph from the southwest direction prevailed over the region in the forenoon today.

Weather Forecast:

13.03.2026: Partly cloudy sky. The maximum temperatures over Delhi are likely to be in the range of 32°C to 34°C. The maximum temperatures will be appreciably above normal (3.1°C to 5.0°C) at most places and markedly above normal (5.0°C or more) at isolated places over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed reaching up to 20 kmph during the afternoon hours. The wind speed will gradually decrease, becoming less than 16 kmph from the northwest direction during the evening and night.

14.03.2026: Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 31°C to 33°C and 18°C to 20°C, respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places and appreciably above normal (3.1°C to 5.0°C) at isolated places, and the maximum temperature will be above normal (1.6°C to 3.0°C) at most places and appreciably above normal (3.1°C to 5.0°C) at isolated places over Delhi. The predominant surface wind from the west direction with wind speed reaching up to 10 kmph during the morning hours. The wind speed will increase up to 16 kmph from the northwest direction during the afternoon. The wind speed will gradually decrease, becoming less than 10 kmph from the north direction during the evening and night.

15.03.2026: Generally cloudy sky. A spell of very light rain/drizzle accompanied by thunderstorm/lightning during morning/forenoon hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 30°C to 32 °C and 17°C to 19°C, respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places and appreciably above normal (3.1°C to 5.0°C) at isolated places, and the maximum temperature will be above normal (1.6°C to 3.0°C) over Delhi. The predominant surface wind is likely to be from the north-northeast direction, reaching up to 10 kmph during the morning hours. The wind speed will increase up to 12 kmph from the east direction during the afternoon. The wind speed will gradually increase, reaching up to 16 kmph from the northeast direction during the evening and night.

16.03.2026: Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 31°C to 33°C and 14°C to 16°C, respectively. The minimum temperature will be near normal, and the maximum temperature will be above normal (1.6°C to 3.0°C) at most places and appreciably above normal (3.1°C to 5.0°C) at isolated places over Delhi. The predominant surface wind from the southeast direction, reaching up to 16 during the morning hours. The wind speed will increase to up to 26 kmph from the southeast in the afternoon. The wind speed will gradually decrease, becoming less than 15 kmph from the southeast direction during the evening and night.

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

- ✓ Isolated **hailstorm** likely over Jammu-Kashmir-Ladakh, Himachal Pradesh on 15th; Uttarakhand, Punjab, Haryana, Chandigarh & East Uttar Pradesh on 15th & 16th; West Uttar Pradesh on 16th March.
- ✓ **Thundersquall** (wind speed reaching 50-60 kmph gusting to 70 kmph) very likely at isolated places over Uttarakhand on 15th & 16th March.
- ✓ **Thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Jammu-Kashmir-Ladakh, Himachal Pradesh on 15th & 16th; Uttarakhand on 14th; Rajasthan on 13th & 14th; Punjab, Haryana, Chandigarh during 15th-19th; Uttar Pradesh, East Madhya Pradesh on 15th & 16th; Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 13th-15th; West Madhya Pradesh on 15th; Vidarbha during 14th-17th; Odisha, Chhattisgarh, Jharkhand & Telangana during 15th-17th; Sub-Himalayan West Bengal & Sikkim during 13th-19th; Gangetic West Bengal during 15th-17th & on 19th; Bihar during 15th-18th March.

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 Heat wave conditions

- ❖ **Heat wave to severe heat wave conditions** very likely in isolated pockets over Himachal Pradesh on 13th & 14th March.
- ❖ **Heat wave conditions** in isolated pockets over Odisha on 13th & 14th; Madhya Pradesh, Vidarbha, Konkan, Saurashtra & Kutch on 13th; Jharkhand on 14th & 15th March.

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/very heavy rainfall:

- ❖ Isolated heavy rainfall/snowfall very likely over Arunachal Pradesh during 13th-16th with heavy to very heavy rainfall/snowfall on 13th March.
- ❖ Isolated heavy rainfall very likely over Assam & Meghalaya during 13th-15th and Sub-Himalayan West Bengal & Sikkim on 13th & 16th March.

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 kutchra 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 Heavy Rainfall

- In **Arunachal Pradesh**, postpone harvesting of cabbage, pea, mustard and late-maturing paddy varieties and digging of potatoes. Shift the harvested produce to safe places. Drain out excess rainwater from the standing crop fields
- In **Assam**, drain out excess rainwater from the standing crop fields.
- In **Meghalaya**, make necessary arrangements for proper drainage in summer vegetable crops. Carry out staking and propping of plantation crops and protect young seedlings from heavy rainfall. Harvest garden peas when the pods are green, tender, and fully developed, and keep the harvested pods in safer place immediately.
- In **Sub-Himalayan West Bengal**, drain out excess rainwater from the standing crop fields.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Likely Impact of Above normal Temperatures

- Increased evapotranspiration leading to soil moisture depletion and moisture stress, which may adversely affect crop growth, seed development and yield.
- Accelerated crop maturity, shortened grain filling duration and shrivelled grain formation, resulting in possible yield reduction in wheat crop.
- Increased moisture stress and reduced grain filling in cereals and other *rabi* crops such as *rabi* maize, sorghum and other late sown *rabi* crops (vegetative to reproductive stages).
- Flower drop, poor pod setting, premature pod drying and reduction in seed size and seed weight in oilseed and pulse crops.
- Reduced tuber bulking and early plant senescence in tuber crops such as potato.
- Flower drop, fruit sunscald and reduction in marketable yield in vegetable crops such as tomato, capsicum, cabbage and cauliflower.
- Flower drop, reduced fruit setting, premature fruit drop, fruit sunburn (or sunscald), reduction in fruit size, uneven ripening, deformities such as spongy tissue (especially in mango), along with an overall decrease in yield and quality in horticultural crops (such as mango, apple, orange, etc.).
- Increased crop water requirements and higher risk of water stress under limited irrigation conditions.
- Reduced feed intake, milk yield and egg production along with increased water requirement in livestock and poultry.

Agromet advisories for likely impact of Above normal Temperatures

- In **Gujarat**, apply light irrigation in wheat (grain filling stage), chickpea, cumin and vegetable crops in the morning and evening hours. Apply mulching with crop residues in vegetable crops to prevent heat damage and conservation of soil moisture. Protect vegetable nurseries and orchards against hot winds by physical barrier like wet gunny bag barriers of hay or sorghum.
- In **Maharashtra**, provide light and frequent irrigation during the evening or early morning hours to sapota, chilli, brinjal and tomato. Apply irrigation at frequent intervals to reduce premature fruit drop and sun scorching in mango and undertake pre-harvest bagging of mango fruits using newspaper bags to prevent sun scalding in **Konkan**. Apply irrigation in late sown *rabi* crops like wheat, groundnut, sesame, safflower,

sorghum, orchards and vegetables as per requirement and use straw mulch to reduce evaporation losses in **Vidarbha**.

- In **Madhya Pradesh**, apply light irrigation in wheat, chickpea and sugarcane to minimize the impact of high temperature. Complete harvesting of matured mustard during morning/evening hours and keep the produce in safe places.
- In **Chhattisgarh**, provide **light and frequent irrigation** in standing crops such as **wheat, chickpea, lentil and mustard** to minimize heat stress and maintain adequate soil moisture.
- In **Rajasthan**, provide protective irrigation in cumin, isabgol, mustard and gram during morning or evening hours to minimize heat stress.
- In **Uttar Pradesh**, provide light irrigation in wheat (grain filling stage), mustard and gram crops during morning or evening hours to reduce adverse impacts of heat.
- In **Punjab**, maintain optimum soil moisture through irrigation in mustard, gobhi sarson and potato.
- In **Haryana**, provide light irrigation to mustard and gram at flowering and pod formation stages. Maintain optimum soil moisture in wheat during grain filling stage.
- In **Himachal Pradesh**, apply irrigation to wheat during early morning or evening hours to protect the crop from heat stress conditions
- In **Uttarakhand**, apply irrigation to wheat, chickpea and lentil and French beans.
- In **Jharkhand**, provide irrigation in wheat at the grain-filling stage.
- In Interior Odisha,
- Take appropriate action for conservation of soil moisture through mulching, proper field bunding, and avoiding unnecessary intercultivation.

Livestock / Poultry

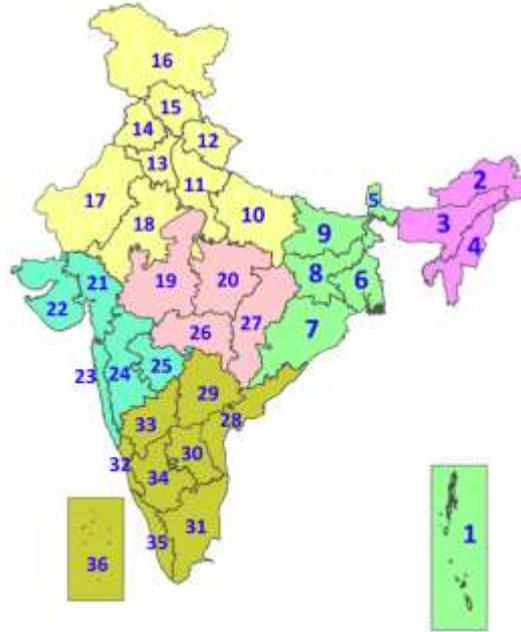
- Provide clean, hygienic and plenty of drinking water to animals.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass.

Legends & abbreviations:

- ❖ **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.
- ❖ **Region wise classification of meteorological Sub-Divisions:**
 - **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - **West India:** Gujarat Region, Saurashtra & Kutch, 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

* 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)

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 62-67 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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