Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 14th March 2026
Time of Issue: 1415 hours IST

Subject: (i) Isolated heavy to very heavy rainfall likely over Assam on 14th & 16th March & heavy rainfall on 15th March. Isolated heavy rainfall also likely over Sub-Himalayan West Bengal & Sikkim on 14th & 16th; Arunachal Pradesh during 14th-16th and Nagaland on 14th March.
(ii) Present Western Disturbance likely to cause isolated thunderstorm, lightning & gusty winds along with hailstorm likely over Western Himalayan Region and adjoining plains on 15th & 16th March.
(iii) A fresh Western Disturbance likely to cause Rain/Thunderstorm, lightning & gusty winds along with hailstorm likely over Western Himalayan Region and adjoining plains from 18th March.
(iv)Isolated thunderstorm activities accompanied with Gusty winds also likely over East and adjoining Central India during 16th to 19th March, with its peak intensity on 16th March, 2026.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 14th March, 2026:

- **Heat wave conditions** prevailed in some pockets of Vidarbha.
- **Very heavy rainfall (12-20 cm)** has been recorded at isolated places over Assam.
- **Heavy rainfall (7-11 cm)** has been recorded at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Tripura.

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

- **Maximum/day temperatures** were in the range of 38-40°C at many places over Saurashtra & Kutch, Vidarbha, Rayalaseema, Marathwada; at a few places over Madhya Maharashtra, Gujarat Region, Madhya Pradesh, Telangana; 35-38°C at many places over Rajasthan, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Gangetic West Bengal; at a few places over East Uttar Pradesh, North Interior Karnataka; at isolated places over Bihar, Odisha, Konkan & Goa, South Interior Karnataka, Chhattisgarh. **Yesterday, the highest maximum temperature of 41.8°C was reported at Amravati (Vidarbha).**
- **Maximum Temperatures/day temperatures** were markedly above normal (> 5.1°C) at a few places over Madhya Pradesh and at isolated places over Jharkhand, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand; appreciably above normal (3.1°C to 5.0°C) at most places over Gujarat state; at a few places over Rajasthan, Uttar Pradesh, Punjab; at isolated places over Bihar, Chhattisgarh, Gangetic West Bengal, Madhya Maharashtra; above normal (1.6°C to 3.0°C) at a few places over Marathwada, North Interior Karnataka; at isolated places over Telangana, Rayalaseema, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal. These were Markedly below normal (< -5.1°C) at a few places over Assam; appreciably below normal (-5.0°C to -3.1°C) at isolated places over Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim and near normal over rest parts of the country.
- **Minimum/night temperatures** were in the range of 14–18°C over Punjab, Haryana, Chandigarh, Delhi, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Jharkhand, Vidarbha, Madhya Maharashtra, Sikkim, Assam & Meghalaya, South Interior Karnataka. 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, Gujarat Region, Coastal Andhra Pradesh & Yanam, Telangana, 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 12.9°C was observed at Amritsar and Adampur IAF (Punjab) over the plains of India.**
- **Minimum/night Temperature** were markedly above normal (5.1°C or more) over Uttarakhand & Bihar; appreciably above normal (3.1°C to 5.0°C) over Jammu-Kashmir, Uttar Pradesh, Gujarat Region, Gangetic West Bengal; above normal (1.6°C to 3.0°C) over Punjab, Haryana, Chandigarh & Delhi, Saurashtra & Kutch, Madhya Pradesh, Maharashtra, Odisha, Chhattisgarh, Telangana and near normal over rest parts of the country.

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

- An upper air **cyclonic circulation** lies over Northeast Assam & neighbourhood in lower tropospheric levels.
- A **trough** in lower-level westerlies roughly along Long. 93°E to the north of Lat. 22°N.
- A **trough** runs from central parts of northeast Uttar Pradesh to South Interior Odisha in lower tropospheric levels.
- Another **trough** runs from Marathwada to South Interior Karnataka in lower tropospheric levels.
- **Subtropical westerly Jet Stream** with core winds of the order of 110 knots at 12.6 km above mean sea level prevails over North India.
- The **Western Disturbance** as a trough in middle tropospheric westerlies runs roughly along Long. 60°E to the north of Lat. 32°N.
- A fresh **Western Disturbance** is likely to affect northwest India from night of 17th March, 2026.
- Occurrence of south to southwesterly winds with speed upto 30kts accompanied with moisture convergence towards Sikkim and Northeast India.

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

Northwest India:

- ✓ **Isolated light rainfall/snowfall** likely over Western Himalayan region on 14th March. Rainfall is likely to increase to **scattered to fairly widespread over the region during 15th-20th March**. **Thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Jammu-Kashmir-Ladakh on 15th,16th,18th & 19th; Himachal Pradesh during 15th-19th and Uttarakhand during 14th-16th & on 18th, 19th 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; West Rajasthan on 14th, 15th, 18th & 19th; East Rajasthan on 18th & 19th March.
- ✓ Isolated **hailstorm** activity 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 Arunachal Pradesh and Assam & Meghalaya during next 5-6 days and Nagaland, Manipur, Mizoram & Tripura on 14th & 15th; with **gusty winds speed reaching (30-50 kmph)** over Arunachal Pradesh, Assam & Meghalaya during 14th-16th and Nagaland, Manipur, Mizoram & Tripura on 14th March.
- ✓ Isolated **heavy rainfall/snowfall** very likely over Arunachal Pradesh during 14th-16th March.
- ✓ Isolated **heavy rainfall** very likely over Nagaland on 14th; Assam & Meghalaya on 15th March with **heavy to very heavy rainfall** over Assam on 14th & 16th March.

East & Central India:

- ✓ **Fairly widespread to widespread** light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Sub-Himalayan West Bengal & Sikkim during 14th-18th March.
- ✓ **Isolated to Scattered** light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over West Madhya Pradesh on 15th & 18th; East Madhya Pradesh, Vidarbha & Chhattisgarh during 15th-18th; Jharkhand, Gangetic West Bengal & Bihar during 15th-17th and Odisha during 14th-18th March.
- ✓ **Thundersquall** (wind speed reaching 50-60 kmph gusting to 70 kmph) very likely at isolated places over Jharkhand, Odisha on 16th; Chhattisgarh on 16th & 17th; Vidarbha on 17th & 18th March.
- ✓ Isolated **heavy rainfall** very likely over Sub-Himalayan West Bengal & Sikkim on 14th & 16th March.

South Peninsular India:

- ✓ **Isolated** light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Telangana during 15th-18th; Coastal Andhra Pradesh & Yanam on 16th; South Interior Karnataka on 17th & 18th; with **thunderstorm & lightning** over Kerala & Mahe on 15th & 16th; Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu on 17th & 18th March.

West India:

- ✓ **Isolated** light/moderate rainfall with **thunderstorm & lightning** likely over Gujarat Region on 18th & 19th March.

Forecast of maximum/day temperatures:

- No significant change in maximum temperatures likely over Northwest India during next 24 hours and gradual fall by 2-4°C during subsequent 6 days.
- No significant change in maximum temperatures likely over Vidarbha, Chhattisgarh & East India during next 2 days and gradual fall by 2-4°C during subsequent 5 days.
- Gradual fall in maximum temperature by 2-4°C likely over Gujarat State and Madhya Pradesh during next 5 days and no significant change during subsequent 2 days.
- No significant change in maximum temperatures likely over Maharashtra during next 24 hours; gradual fall by 2-4°C during subsequent 2 days and no significant change thereafter.
- No significant change in maximum temperatures likely over South Peninsular India during next 2 days and gradual fall by 3-4°C during subsequent 5 days.

Heat Wave, Hot & Humid weather Warnings:

- **Heat wave conditions** likely in isolated pockets over Vidarbha, Jharkhand and Odisha on 14th March.
- **Hot & humid conditions** very likely to prevail in isolated pockets over Konkan & Goa and Kerala & Mahe on 14th March.

Weather conditions and forecast over Delhi/NCR during 14th-17th March, 2026 (ANNEXURE III)

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
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):

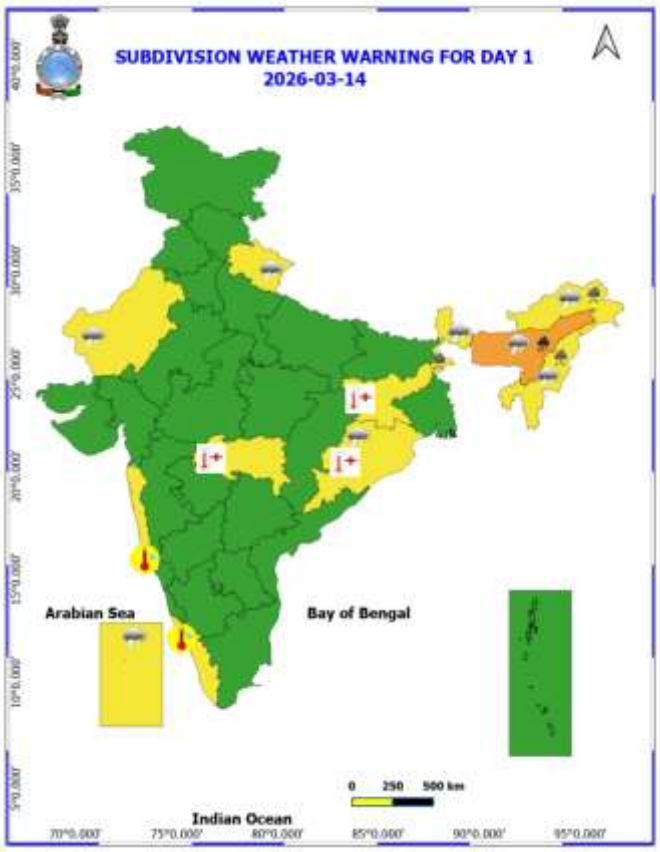
- **Assam & Meghalaya:** Manas Aws 13; Rangia (dist Kamrup (rural)), Tamulpur (dist Tamulpur), Tamulpur ARG (dist Baksa) 11 Each; Nalbari/Pagladia (dist Nalbari) 10; Melabazar/Matunga (dist Nalbari) 8; Puthimari (dist Kamrup (rural)), Goibargaon (dist Baksa) 7 Each;
- **Sub-Himalayan West Bengal & Sikkim:** Mangan (dist Mangan) 8, Jayanti Arg (dist Alipurduar) 7, Singhik (dist Mangan) 7;
- **Tripura:** Lembuchhera (dist West Tripura) 7;
- **Arunachal Pradesh:** Hayuliang_Circle AWS 7.

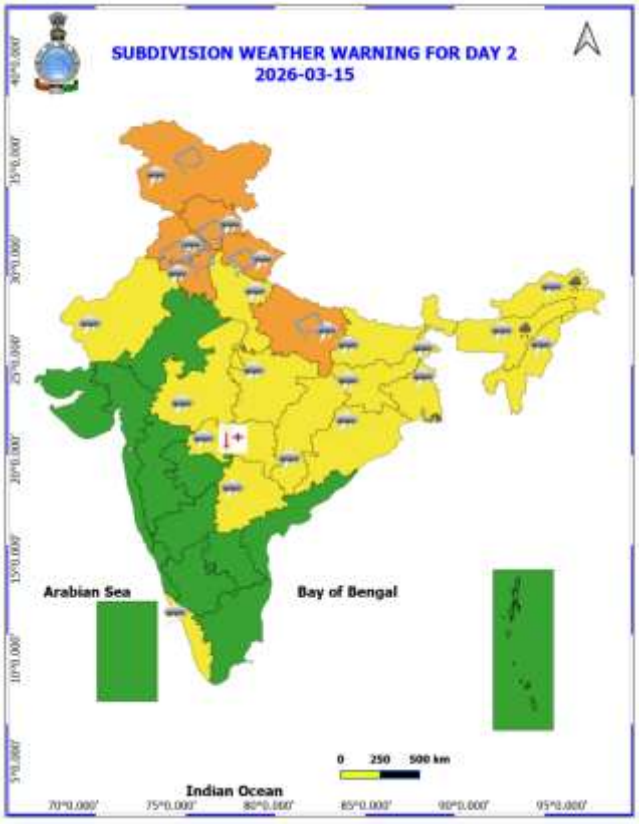
ANNEXURE I

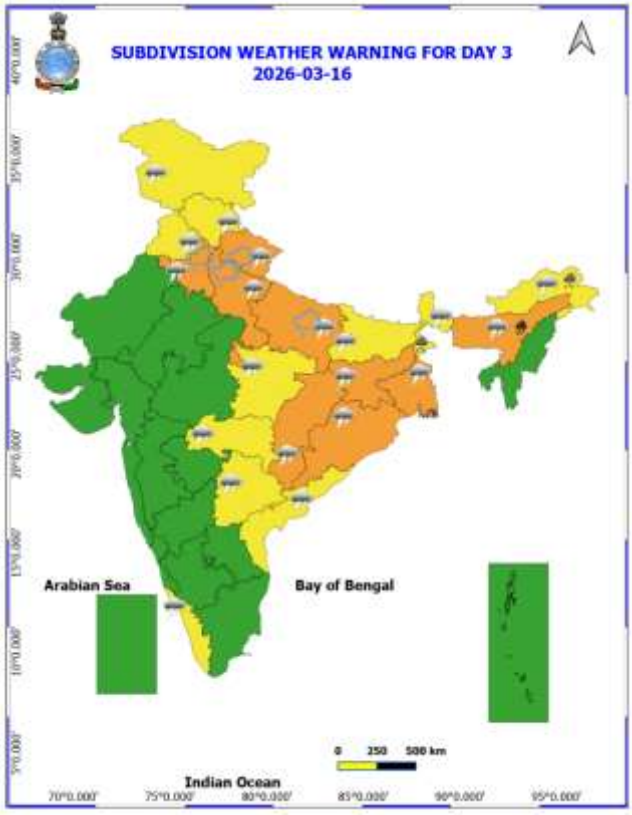
Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	14- Mar	15- Mar	16- Mar	17- Mar	18- Mar	19- Mar	20- Mar
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	SCT	SCT	SCT	SCT	SCT
2	ARUNACHAL PRADESH	WS	WS	WS	FWS	FWS	SCT	SCT
3	ASSAM & MEHGHALAYA	WS	WS	WS	FWS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

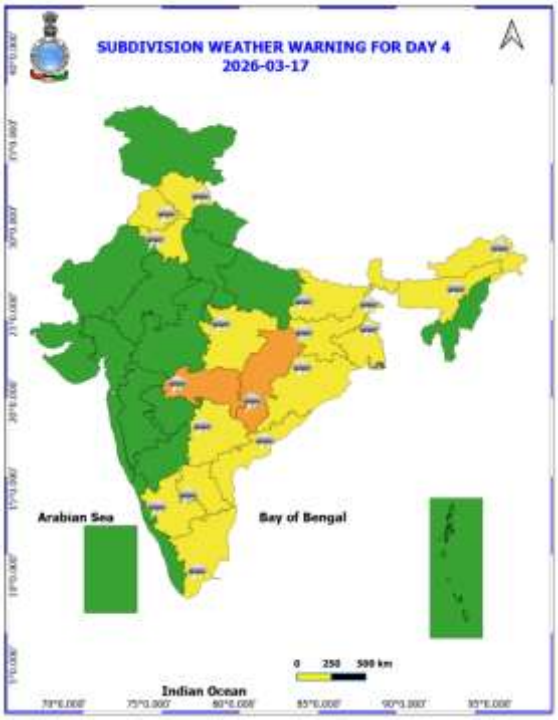
- **As the lead period increases forecast accuracy decrease.**

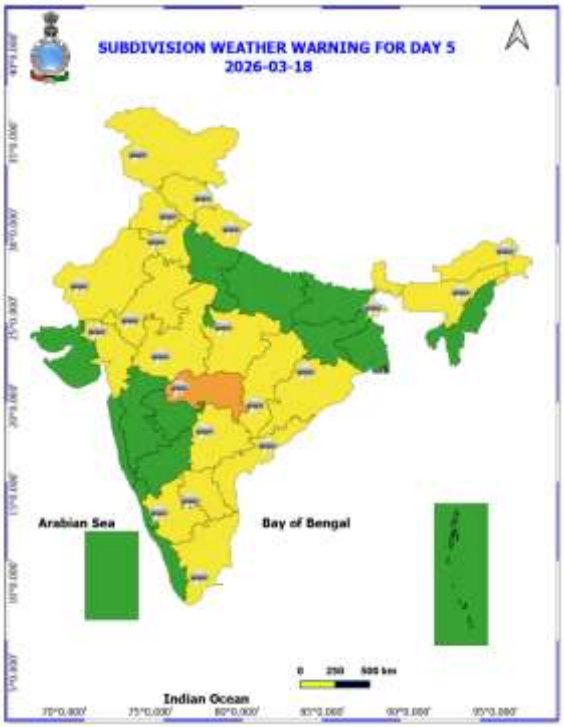
ANNEXURE II

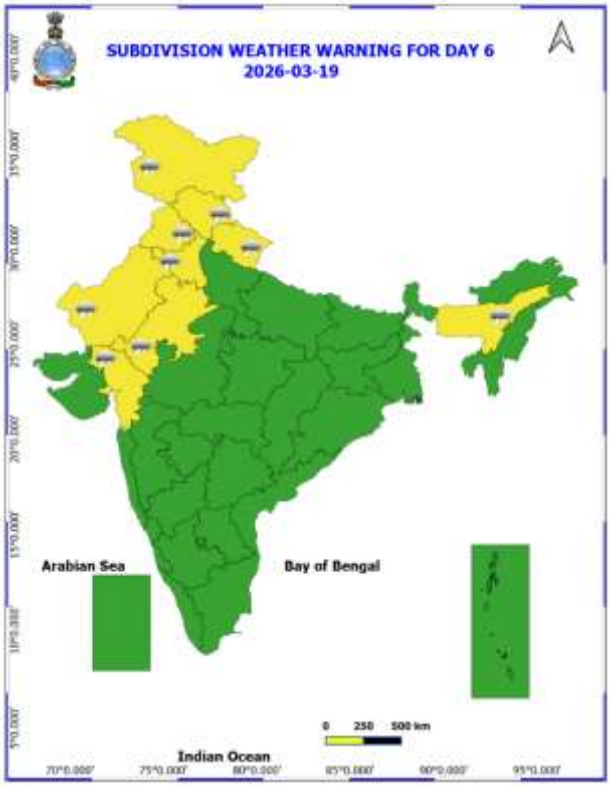

SUBDIVISION WEATHER WARNING FOR DAY 1
2026-03-14
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km

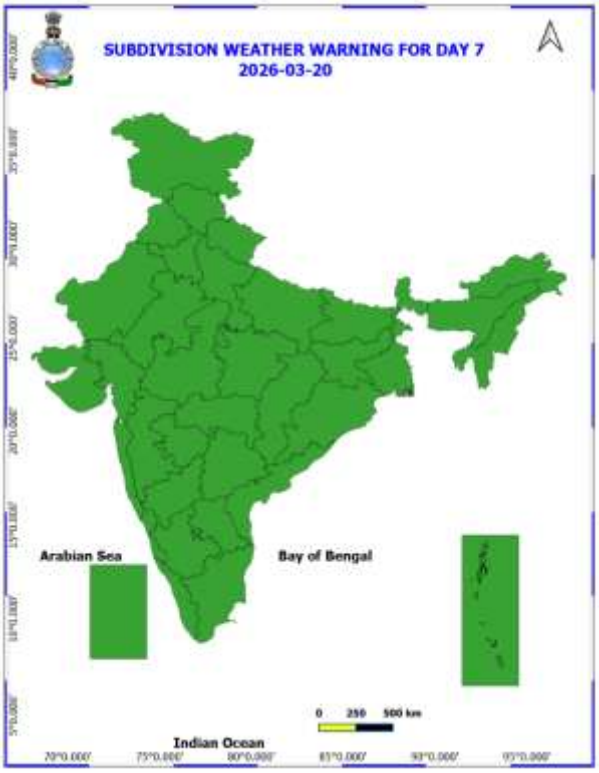

SUBDIVISION WEATHER WARNING FOR DAY 2
2026-03-15
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km


SUBDIVISION WEATHER WARNING FOR DAY 3
2026-03-16
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km









- **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.**

DetaileddistrictwiseMultiHazardweatherwarningfornextfivedaysavailableat
https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php

ANNEXURE III

Weather forecast over Delhi/NCR during 14th to 17th March 2026

Past Weather:

There has been a 2-3°C fall in minimum temperatures and a 3-4°C fall in maximum temperatures over Delhi in the past 24 hours. The maximum temperatures were in the range of 31-34 °C, and the minimum temperatures were in the range of 17-19°C, respectively, during the past 24 hours over Delhi. The minimum temperatures are above normal (1.6°C to 3.0°C) at many places and normal (-1.5°C to 1.5°C) over the remaining part of Delhi. The maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places and above normal (1.6°C to 3.0°C) over the remaining parts of Delhi. Partly cloudy sky with sustained surface wind from the west direction reaching up to 20 kmph prevailed during the past 24 hours. Partly cloudy sky with wind speed reaching up to 16 kmph from the northwest direction is expected to prevail over the region in the forenoon today.

Weather Forecast:

14.03.2026: Partly cloudy sky. The maximum temperatures over Delhi are likely to be in the range of 31°C to 33°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 12 kmph from the north direction during the evening and night.

15.03.2026: Generally cloudy sky. A spell of very light to light rain accompanied by thunderstorm/lightning and strong surface wind speed 30-40 kmph gusting 50 kmph during morning/forenoon Hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 29°C to 31°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 from the southeast direction with wind speed reaching up to 16 kmph during the morning hours. The wind speed will increase up to 20 kmph from the southeast direction during the afternoon. The wind speed will gradually decrease, becoming less than 16 kmph from the southeast direction during the evening and night.

16.03.2026: Partly cloudy sky. Strong surface wind (speed 20-30 kmph) during the daytime. The maximum and minimum temperatures over Delhi are likely to be in the range 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 is likely to be from the southeast direction, reaching up to 16 kmph during the morning hours. The wind speed will increase up to 26 kmph from the southeast direction during the afternoon. The wind speed will gradually decrease, becoming less than 14 kmph from the southeast direction during the evening and night.

17.03.2026: Partly cloudy sky. Strong surface wind (speed 15-25 kmph) during the daytime. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 31°C to 33°C and 15°C to 17°C, respectively. The minimum temperature will be above normal (1.6°C to 3.0°C), 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 east direction, reaching up to 26 kmph during the morning hours. The wind speed will decrease to less than 16 kmph from the southeast in the afternoon. The wind speed will gradually decrease, becoming less than 14 kmph from the east 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 Jharkhand, Odisha on 16th; Chhattisgarh on 16th & 17th; Vidarbha on 17th & 18th March.
- ✓ **Thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Jammu-Kashmir-Ladakh on 15th,16th,18th & 19th; Himachal Pradesh during 15th-19th; Uttarakhand during 14th-16th & on 18th, 19th; Punjab, Haryana Chandigarh during 15th-19th; Uttar Pradesh on 15th & 16th; West Rajasthan on 15th, 18th & 19th; East Rajasthan on 18th & 19th; Arunachal Pradesh, Assam & Meghalaya during 14th-16th and Nagaland, Manipur, Mizoram & Tripura on 14th; Sub-Himalayan West Bengal & Sikkim during 14th-18th; West Madhya Pradesh on 15th & 18th; East Madhya Pradesh, Vidarbha, Chhattisgarh, Telangana during 15th-18th; Jharkhand, Gangetic West Bengal & Bihar during 15th-17th and Odisha during 14th-18th; Coastal Andhra Pradesh & Yanam on 16th; South Interior Karnataka on 17th & 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 conditions** likely in isolated pockets over Vidarbha, Jharkhand and Odisha on 14th 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 14th-16th March.
- ❖ Isolated heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim on 14th & 16th; Nagaland on 14th; Assam & Meghalaya on 15th March with heavy to very heavy rainfall over Assam on 14th & 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 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 Hailstorms

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh and Northwest Rajasthan.

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. Nursery for chilli, tomato, and other vegetables may be prepared under covered shelters or poly houses to protect seedlings from rain. Open nurseries should be immediately covered with polythene sheets or sack cloths to protect seedlings from rain.
- In **Assam,** drain out excess rainwater from the standing crop fields.
- In **Meghalaya**, ensure proper drainage in summer vegetable crops. Carry out staking and propping of plantation crops and protect young seedlings from heavy rainfall. Keep the harvested pods of garden peas in safer place immediately.
- In **Nagaland,** ensure proper drainage to drain out excess water from vegetables and orchards.
- In **Sub-Himalayan West Bengal**, drain out excess rainwater from the standing crop fields. Cover the nursery of cucurbits and Dalle khorsani with polyethylene sheets or agro-net to protect the seedlings from adverse weather conditions.

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 **Odisha,** apply light and frequent irrigation to *Boro* rice, green gram, black gram, vegetables, and horticultural crops at regular intervals in the early morning or late evening.
- Take appropriate action for conservation of soil moisture through mulching, proper field bunding, and avoiding unnecessary intercultivation.

Livestock / Poultry

- Keep the animals inside the shed during Heavy Rainfall/Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.
- 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.

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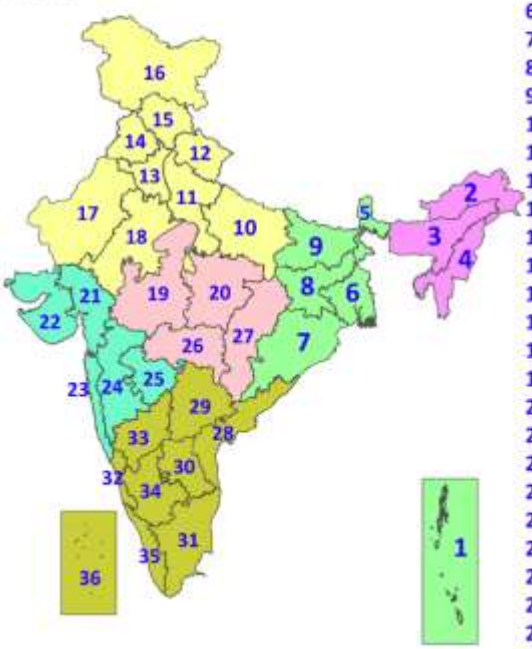
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और माहे
36. लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidarbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)

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

COLOUR CODED WARNING

- No Warning (No Action)
- Watch (Be Aware)
- Alert (Be Prepared To Take Action)
- Warning (Take Action)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

* 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)

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DEFINITION/CRITERIA

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

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