



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 27<sup>th</sup> March 2026

Time of Issue: 1345 hours IST

**Subject: (i) Wet spell likely to continue over northwest India during the week with peak activity on 29<sup>th</sup> & 30<sup>th</sup> March and isolated heavy rainfall/snowfall over Kashmir valley on 30<sup>th</sup> March, 2026.**

**(ii) Scattered to fairly widespread rainfall along with thunderstorm/lightning & gusty wind likely over Northeast & adjoining east India during the week with possibility of isolated heavy falls during most days of the week.**

**(iii) Isolated rainfall alongwith thunderstorm, lightning & gusty winds likely to over South Peninsular India during the week.**

**Realised weather during past 24 hours ending at 0830 hours IST of today, the 27<sup>th</sup> March, 2026:**

- ❖ **Heavy rainfall (7-11cm)** has been recorded at isolated places over Sikkim.
- ❖ **Hailstorm activity** reported at isolated places over Uttarakhand, Gangetic West Bengal, Odisha, Coastal Maharashtra and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 30-80 kmph at isolated places over Odisha, Jammu-Kashmir, Bihar, Madhya Pradesh, Maharashtra, Saurashtra & Kutch, Jharkhand, Uttarakhand, Haryana, Himachal Pradesh, Gangetic West Bengal, North Interior Karnataka, Coastal Andhra Pradesh and Tamil Nadu.

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

- ❖ **Maximum/day temperatures** were in the range (37°C- 40°C) at many places over Maharashtra, Madhya Pradesh, Gujarat state, Odisha; at a few places over Chhattisgarh & south peninsular India; at isolated places over southeast Uttar Pradesh, south Rajasthan and in the range of (32°C- 37°C) over the rest parts of the country except Northeast India, Sub-Himalayan West Bengal & Sikkim and Western Himalayan Region. **Yesterday, the highest maximum temperature of 41.8°C was reported at AKOLA (MAHARASHTRA).**
- ❖ **Maximum Temperatures/day temperatures** were **appreciably above normal (3.1°C to 5.0°C)** over Jammu-Kashmir, Himachal Pradesh, East Rajasthan, West Madhya Pradesh; **above normal (1.6°C to 3.0°C)** over Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Saurashtra & Kutch, Vidarbha, Coastal Maharashtra, Kerala & Mahe; **below normal (- 3.0°C to -1.6°C)** over north Bihar, Odisha and Telangana.
- ❖ **Minimum/night temperatures** were in the range of 12-18°C over Himachal Pradesh, Punjab, northwest Uttar Pradesh, Sikkim, Assam & Meghalaya. They were in the range of 18-25°C over remaining parts of the plains of the country. **Today, the lowest minimum temperature of 15.4 °C was observed at Muzaffarnagar (West Uttar Pradesh) over the plains of India.**
- ❖ **Minimum/night Temperature** were **appreciably above normal (3.1°C to 5.0°C)** over Haryana, East Rajasthan, Uttar Pradesh, Madhya Maharashtra; **above normal (1.6°C to 3.0°C)** over Jammu-Kashmir, Himachal Pradesh, Punjab, Delhi, West Rajasthan, Gujarat State, Madhya Pradesh, remaining parts of Maharashtra, Chhattisgarh, Odisha, Bihar, Coastal Karnataka; **below normal (-3.0°C to -1.6°C)** over Gangetic West Bengal, Interior Karnataka, Telangana, Rayalaseema, Tamil Nadu and near normal over rest parts of the country.

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

- ❖ The **Western Disturbance** seen as a trough in middle tropospheric westerlies runs roughly along Long. 76°E to the north of Lat. 32°N.
- ❖ A fresh **Western Disturbance** seen as an upper air cyclonic circulation over west Iran & neighbourhood in middle & upper tropospheric levels.
- ❖ A **trough** runs from northwest Rajasthan to southwest Madhya Pradesh in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over central Rajasthan in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over Gangetic West Bengal & adjoining Bangladesh in lower tropospheric levels.
- ❖ A **trough** runs from northwest Bihar to Manipur in lower tropospheric levels.

- ❖ An upper air **cyclonic circulation** lies over Odisha in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over northeast Assam in lower tropospheric levels.
- ❖ Another **trough** runs from Marathwada to Coastal Karnataka in lower tropospheric levels.

### Under the influence of above systems, the following weather is likely:

#### Northwest India:

- ❖ **Isolated to Scattered** light to moderate rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 27<sup>th</sup>; with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 gusting to 60 kmph) over Uttarakhand on 27<sup>th</sup> March and increase thereafter with **fairly widespread to widespread** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 gusting to 60 kmph) likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh during 28<sup>th</sup>-30<sup>th</sup>; Uttarakhand during 29<sup>th</sup>-31<sup>st</sup> March.
- ❖ **Isolated to Scattered** light to moderate rainfall with thunderstorm, lightning & gusty winds speed reaching (30-50 kmph gusting to 60 kmph) likely over Punjab during 28<sup>th</sup>-30<sup>th</sup>; Haryana, Chandigarh & Delhi on 29<sup>th</sup> & 30<sup>th</sup>; West Uttar Pradesh on 27<sup>th</sup> & during 29<sup>th</sup>-31<sup>st</sup>; West Rajasthan during 28<sup>th</sup>-31<sup>st</sup>; East Rajasthan during 29<sup>th</sup>-31<sup>st</sup>; with lightning over East Uttar Pradesh on 27<sup>th</sup> March.
- ❖ **Isolated heavy rainfall/snowfall** likely over Kashmir valley on 30<sup>th</sup> March.

#### Northeast India:

- ❖ **Scattered to fairly widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds speed reaching (30-50 gusting to 60 kmph)** likely over Arunachal Pradesh during 27<sup>th</sup>-29<sup>th</sup>; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 27<sup>th</sup>-31<sup>st</sup> March.
- ❖ **Isolated hailstorm activity with Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely over Assam & Meghalaya on 27<sup>th</sup> March.
- ❖ **Isolated heavy rainfall** likely over Nagaland, Manipur, Mizoram & Tripura on 29<sup>th</sup> March; Arunachal Pradesh on 28<sup>th</sup>, 29<sup>th</sup> March & on 01<sup>st</sup>, 02<sup>nd</sup> April; Assam & Meghalaya during 28<sup>th</sup>-30<sup>th</sup> March & on 01<sup>st</sup>, 02<sup>nd</sup> April.

#### East India:

- ❖ **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 gusting to 60 kmph)** likely over Sub-Himalayan West Bengal & Sikkim during 27<sup>th</sup>-31<sup>st</sup> March.
- ❖ **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 gusting to 60 kmph)** likely over Bihar during 28<sup>th</sup> & 29<sup>th</sup> March; Jharkhand on 28<sup>th</sup>, 31<sup>st</sup> March & 01<sup>st</sup> April and Odisha during 30<sup>th</sup> March-02<sup>nd</sup> April.
- ❖ **Isolated hailstorm activity with Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over West Bengal & Sikkim, Bihar on 27<sup>th</sup> & 28<sup>th</sup> and Jharkhand, Odisha on 27<sup>th</sup> March.
- ❖ **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 27<sup>th</sup> & 28<sup>th</sup> March.

#### Central India:

- ❖ **Isolated** light to moderate rainfall **with thunderstorm, lightning & gusty winds speed reaching (30-50 gusting to 60 kmph)** likely over Madhya Pradesh on 27<sup>th</sup> and during 29<sup>th</sup>-31<sup>st</sup> March; Vidarbha & Chhattisgarh during next 7 days.
- ❖ **Isolated hailstorm activity** likely over Madhya Pradesh, Vidarbha and Chhattisgarh on 29<sup>th</sup> March.

#### West India:

- ❖ **Isolated** light to moderate rainfall **with thunderstorm, lightning & gusty winds speed reaching (40-50 gusting to 60 kmph)** with **hailstorm** likely over Madhya Maharashtra and Marathawada on 30<sup>th</sup> & 31<sup>st</sup> March; with **lightning** over Madhya Maharashtra, Marathawada on 27<sup>th</sup> & 29<sup>th</sup>; Gujarat State on 29<sup>th</sup> & 30<sup>th</sup>; Coastal Maharashtra on 30<sup>th</sup> March.

#### South Peninsular India:

- ❖ **Isolated** light to moderate rainfall **with thunderstorm, lightning & gusty winds speed reaching (30-50 gusting to 60 kmph)** likely over Kerala & Mahe during 27<sup>th</sup>-31<sup>st</sup>; North Interior Karnataka on 27<sup>th</sup> & during 30<sup>th</sup> March-02<sup>nd</sup> April; South Interior Karnataka during 28<sup>th</sup> March-02<sup>nd</sup> April; Coastal Andhra Pradesh & Yanam, Rayalaseema during 27<sup>th</sup>-31<sup>st</sup> March; Telangana during 27<sup>th</sup> March-01<sup>st</sup> April; with **lightning** over Tamil Nadu on 29<sup>th</sup> March; Coastal Karnataka during 27<sup>th</sup> March-02<sup>nd</sup> April.

### Hot & Humid weather Warnings:

- ❖ **Hot & humid conditions** very likely to prevail in isolated pockets over Coastal Maharashtra, Kerala on 27<sup>th</sup>; Coastal Karnataka during 27<sup>th</sup>-29<sup>th</sup> March.

### Forecast of maximum/day temperatures:

- ❖ Gradual fall in maximum temperatures by 2-4°C likely over Northwest India during next 24 hours; gradual rise by 2-4°C during 29<sup>th</sup>-30<sup>th</sup> March; gradual fall by 3-5°C during 31<sup>st</sup> March-01<sup>st</sup> April and then again gradual rise by 2-4°C during subsequent 2 days.
- ❖ No significant change in maximum temperatures likely over Central India till 30<sup>th</sup> March and gradual fall by 2-4°C during subsequent 3 days.
- ❖ No significant change in maximum temperatures likely over East India during next 24 hours; gradual fall by 2-4°C during 29<sup>th</sup>-30<sup>th</sup> March and then gradual rise by 3-5°C during subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over Gujarat State during next 24 hours; gradual fall by 2-3°C during 29<sup>th</sup>-30<sup>th</sup> March and no significant change during subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

### Fishermen Warning:

Fishermen are advised not to venture into the following areas:

**Bay of Bengal:** Along and off north Odisha and West Bengal coasts on 28<sup>th</sup> March.

**Arabian Sea:** Along and off the Oman coast, Gulf of Oman & parts of northwest Arabian Sea on 28<sup>th</sup> & 29<sup>th</sup> March.

### Weather conditions and forecast over Delhi/NCR during 27<sup>th</sup> -30<sup>th</sup> March, 2026 (ANNEXURE III)

For more details, kindly refer National Weather Bulletin:

[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](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):

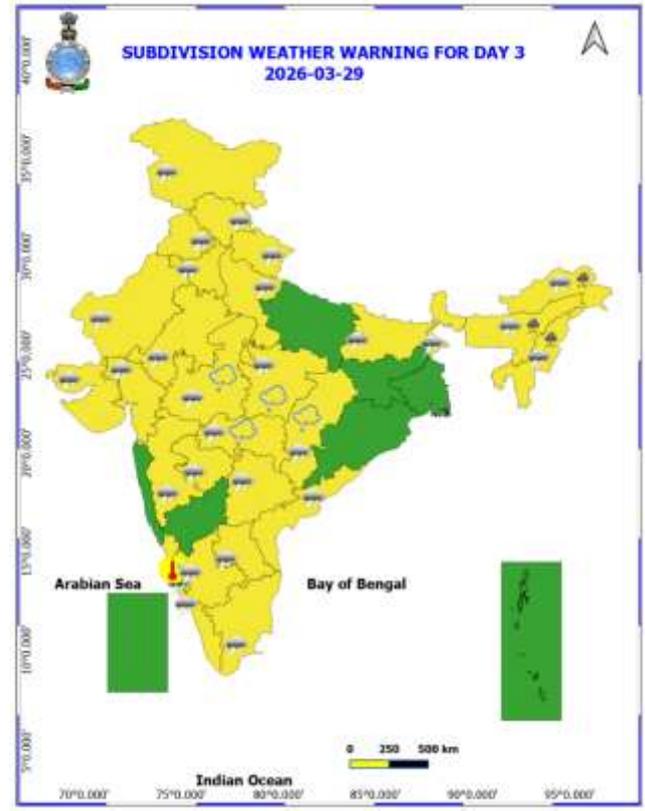
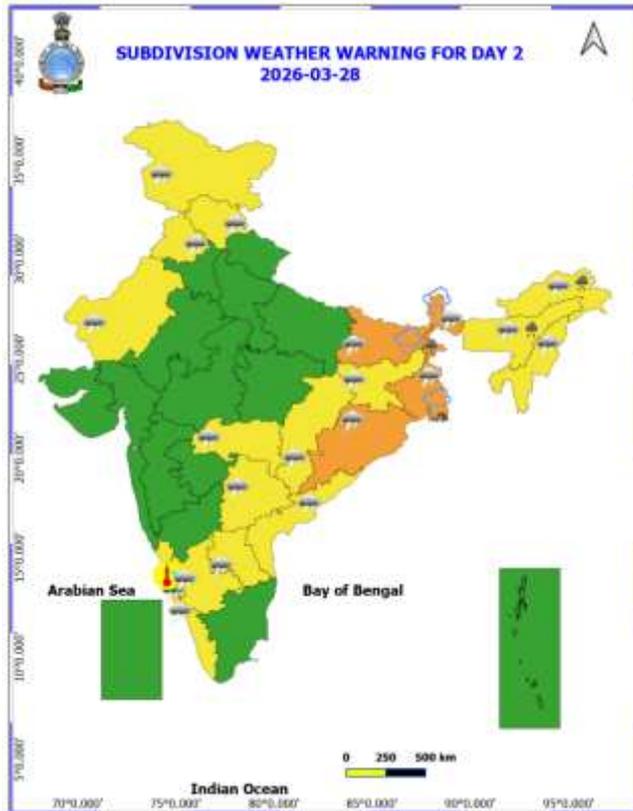
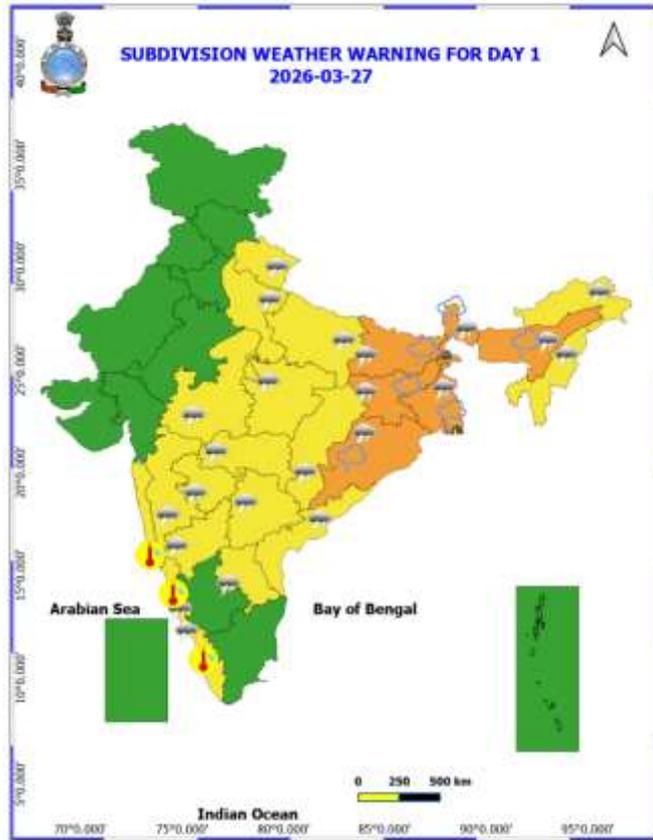
- ❖ **Sikkim:** Chungthang (dist Mangan) 9

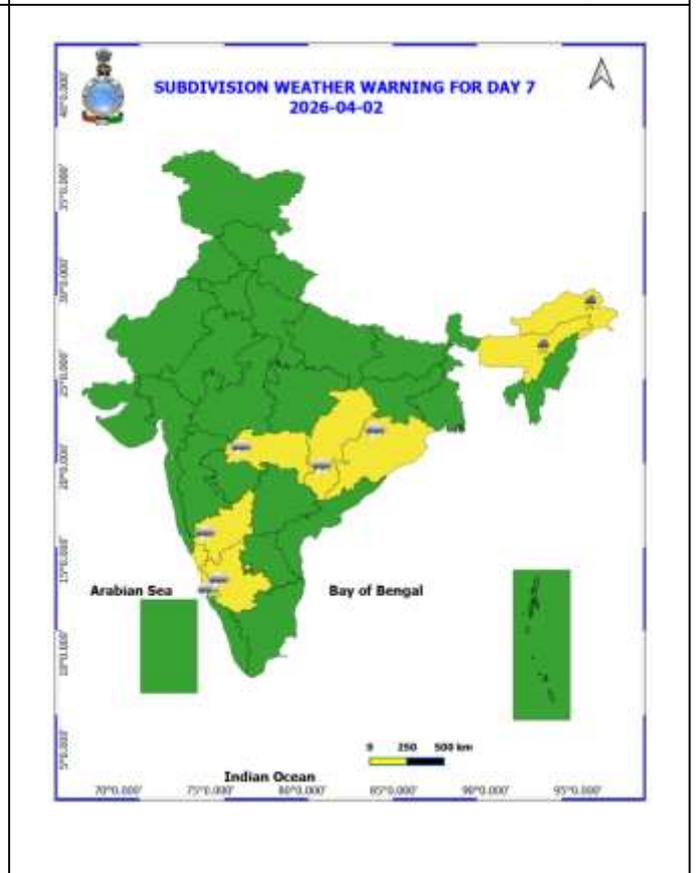
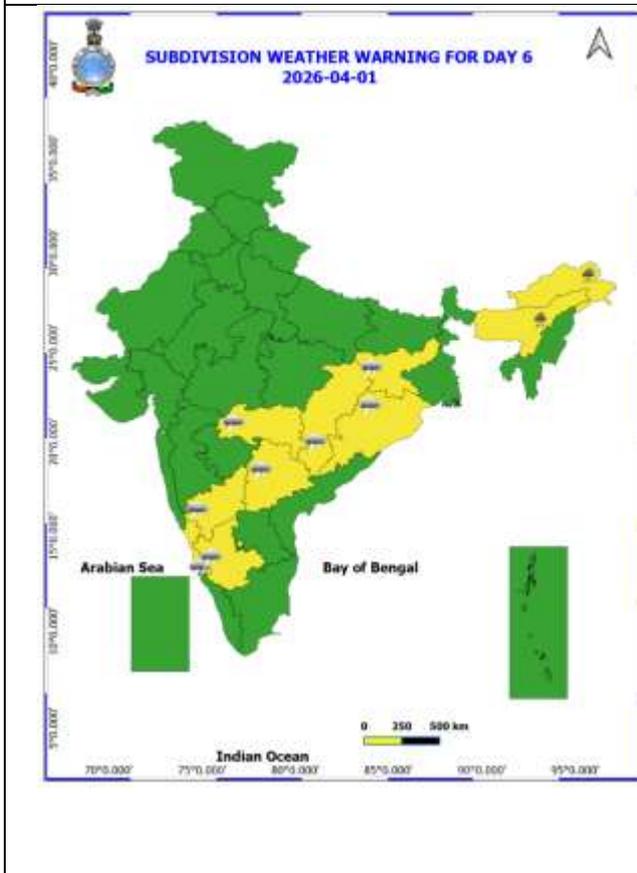
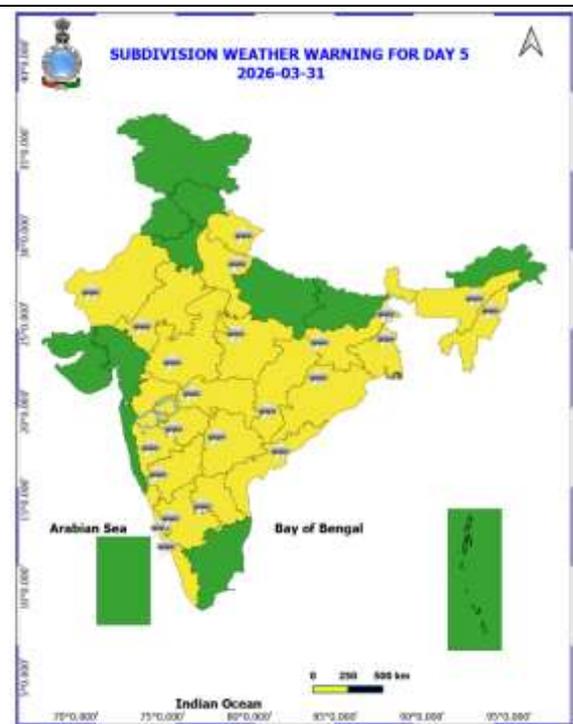
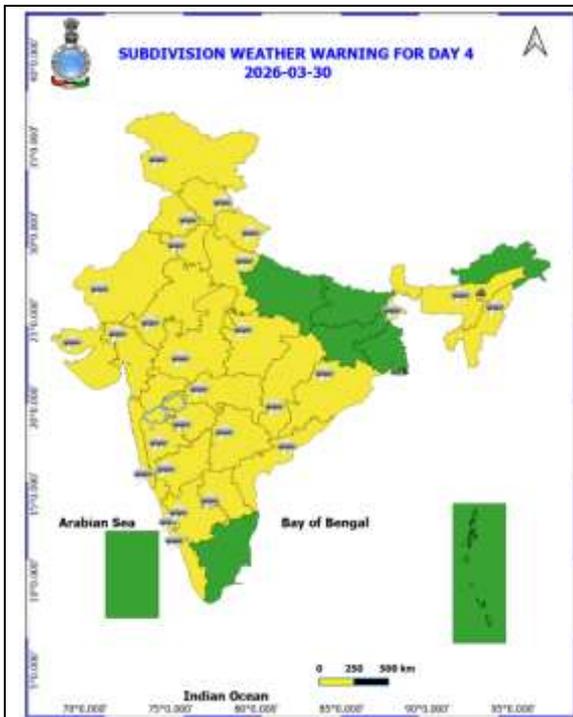
### Gusty winds (in kmph) (from 0830 hours IST of yesterday to 0830 hours IST of today):

- ❖ **Odisha:** Cuttack 80;
- ❖ **Gangetic West Bengal:** PBO Kolkata 57;
- ❖ **Tamil Nadu:** Natham\_ISRO (Dindigul) 50;
- ❖ **Himachal Pradesh:** Seobagh 46;
- ❖ **Haryana:** Palwal AWS 41;
- ❖ **Uttarakhand:** Ranichauri, Mukteshwar 39, Chamoli, Pantnagar 35, Koshyakutoli 33, Bharsar, Roorkee 31, Champawat, Jollygrant, Matela 30;
- ❖ **Jharkhand:** Gumla-Bishnupur KVK 37;
- ❖ **Saurashtra & Kutch:** Khavda (Kutch) 37;
- ❖ **Coastal Maharashtra:** Alibag (Raigad) 37, Karjat (Raigad) - 31 Kmph, Colaba (Mumbai) 28;
- ❖ **Madhya Maharashtra:** Mahabaleshwar (Satara) 37, Narayangaon (Pune) 33, Vilholi (Nashik) 30;
- ❖ **Marathwada:** Ambejogai (Beed) 33, Dharashiv 30;
- ❖ **West Madhya Pradesh:** Sehore 33, Guna 30, Narmada Puram 30, Morena 30;
- ❖ **East Madhya Pradesh:** Satna 31, Katni 30, Sagar 30;
- ❖ **Bihar:** Patna 31;
- ❖ **Jammu-Kashmir:** Kupwara 30, Baramulla 30

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

**Weather forecast over Delhi/NCR during 27<sup>th</sup> to 30<sup>th</sup> March 2026****Past Weather:**

There has been rise in the maximum temperatures up to 1 - 3°C and rise in the minimum temperatures up to 1°C over Delhi in the past 24 hours. The maximum and minimum temperatures were in the range of 34 - 35°C and 19 - 21°C respectively. The minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places, above normal (1.6°C to 3.0°C) at many places, and normal (-1.5°C to 1.5°C) over the remaining parts of Delhi. The maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at few places, above normal (1.6°C to 3.0°C) at many places and normal (-1.5°C to 1.5°C) over the remaining parts of Delhi. Partly cloudy sky with sustained surface wind speed of 25 kmph gusting up to 48 kmph from the southwest direction prevailed during the past 24 hours. Generally cloudy sky with surface winds of 18 kmph from the northwest direction is in the forenoon today.

**Weather Forecast:**

**27.03.2026:** Partly cloudy sky. Possibility of very light rain/drizzle accompanied by thunderstorm/lightning during the afternoon to evening. The maximum temperatures over Delhi are likely to be in the range of 29°C to 31°C. The maximum temperatures will be below normal (-1.6°C to -3.0°C) at most places and near normal (-1.5°C to 1.5°C) at remaining 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 15 kmph from the northwest direction during the evening and night.

**28.03.2026:** Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 31°C to 33°C and 17°C to 19°C respectively. The minimum and the maximum temperatures will be near normal (-1.5°C to 1.5°C) across Delhi. The predominant surface wind is associated with calm wind and then reaching up to 05 kmph from east direction during the morning hours. The wind speed will increase up to 15 kmph from the northwest direction in the afternoon. The wind speed will gradually decrease reaching up to 10 kmph from the southeast direction during the evening and night.

**29.03.2026:** Generally cloudy sky. A spell of very light to light rain accompanied by thunderstorm/lightning with strong surface winds of 30-40 kmph gusting to 50 kmph during morning hours. Another spell of very light rain /drizzle accompanied by thunderstorm/ lightning and with strong surface winds of 30-40 kmph gusting to 50 kmph during the afternoon to evening. The maximum and minimum temperatures over Delhi are likely to be in the range of 32°C to 34°C and 20°C to 22°C respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places and the maximum temperature will be near normal (-1.5°C to 1.5°C) across Delhi. The predominant surface wind is likely to be from the southeast direction with wind speed reaching up to 15 kmph during the morning hours. The wind speed will increase becoming up to 18 kmph from the southeast in the afternoon. The wind speed will gradually decrease reaching up to 12 kmph from the southeast direction during the evening and night.

**30.03.2026:** Generally cloudy sky. Possibility of very light to light rain accompanied with thunderstorm/lightning. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 29°C to 31°C and 20°C to 22°C respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperature will be normal (-1.5°C to 1.5°C) across Delhi. The predominant surface wind is likely to be from the southeast direction with wind speed reaching up to 10 kmph during the morning hours. The wind speed will increase up to 15 kmph from the south direction in the afternoon. The wind speed will gradually decrease reaching up to 10 kmph from the south direction during the evening and night.

**Impact expected and Action Suggested due to thunderstorm with lightning/gusty winds:**

- Be cautious and take precautionary measures, though there is the likelihood of thunderstorms/lightning and gusty winds (speed 30 - 40 kmph) temporarily reaching 50 kmph during thunderstorms with dust rising surface winds.
- Breaking of tree branches, uprooting of large avenue trees, Large dead limbs blown from trees, Damage to standing crops, Minor to major damage to power and communication lines due to breaking of branches, Partial damage to vulnerable structures due to strong winds, Loose objects may fly.
- 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 isolated thunderstorm with lightning/squally winds & Hailstorm over**

- ❖ **Isolated hailstorm activity** likely over Assam & Meghalaya, Jharkhand, Odisha on 27<sup>th</sup>; West Bengal & Sikkim, Bihar on 27<sup>th</sup> & 28<sup>th</sup>; Madhya Pradesh, Vidarbha, Chhattisgarh on 29<sup>th</sup>; Madhya Maharashtra and Marathawada on 30<sup>th</sup> & 31<sup>st</sup> March.
- ❖ **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely over Assam & Meghalaya on 27<sup>th</sup> March.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over West Bengal & Sikkim, Bihar on 27<sup>th</sup> & 28<sup>th</sup> and Jharkhand, Odisha on 27<sup>th</sup> 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 & Action Suggested due to heavy rainfall/snowfall over**

- ❖ **Isolated heavy rainfall/snowfall** likely over Kashmir valley on 30<sup>th</sup> March.
- ❖ **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 27<sup>th</sup> & 28<sup>th</sup>; Nagaland, Manipur, Mizoram & Tripura on 29<sup>th</sup> March; Arunachal Pradesh on 28<sup>th</sup>, 29<sup>th</sup> March & on 01<sup>st</sup>, 02<sup>nd</sup> April; Assam & Meghalaya during 28<sup>th</sup>-30<sup>th</sup> March & on 01<sup>st</sup>, 02<sup>nd</sup> April.

### **Impact Expected**

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas.
- 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/landslips/mudslips/landsinks/mudsinks.
- 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 **Assam & Meghalaya, West Bengal, Bihar, Odisha and Jharkhand**. Undertake harvesting of mature crops immediately and shift them to safer places.
- In **Madhya Maharashtra, Marathwada and Vidarbha**, harvest mature wheat, sorghum, safflower, chickpea, maize, linseed, fruits and vegetables and keep the harvested produce in safe places.
- In **Chhattisgarh**, harvest mature mustard, gram & wheat and shift the harvested produce to safe places.

### **Agromet advisories for likely impact of Heavy Rainfall**

- In **Sub Himalayan West Bengal**, ensure proper drainage channel, and drain out excess water from fields of rice, maize, other standing crops, vegetables and orchard. Cover the nursery of cucurbits and Dalle khorsani with polyethylene sheets or agro-nets.
- In **Arunachal Pradesh**, undertake harvesting of cabbage, pea, mustard and late-maturing paddy varieties and digging of potatoes. Shift the harvested produce to safe places. Maintain proper drainage channels in the fields of rice, maize, other standing crops, vegetables and orchards.
- 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 **Jammu & Kashmir**, make necessary arrangements to drain out excess rain water from wheat, gram, mustard and vegetable fields.

### **Agromet advisories for likely impact of Thunderstorm / Gusty Winds**

- 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 or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

### **Agromet advisories for likely impact of Hot and Humid Weather**

- In Coastal Maharashtra, provide 100 litre water/tree at weekly or 150 to 200 litre water/ tree at 15 days interval to minimize pre-mature fruit drop and sun scorching in mango and poor fruit set and reduced nut size in cashew orchards. Use straw mulch to prevent moisture loss from the soil. Undertake pre-harvest bagging of fruits with newspaper bags to protect the mango fruits from sunscald

### **Livestock / Poultry**

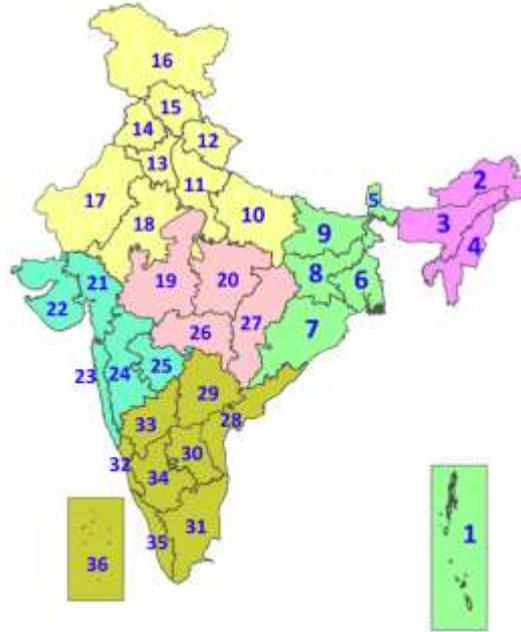
- Keep the animals inside the shed during Heavy Rainfall/Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.

### 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, Coastal Maharashtra (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

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

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