



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 18<sup>th</sup> August 2026

Time of Issue: 1315 hours IST

**Subject: Under the influence of Depression over Jharkhand and adjoining northern parts of Gangetic West Bengal; isolated extremely heavy rainfall likely over northeast Madhya Pradesh & Jharkhand on 18<sup>th</sup> and southeast Uttar Pradesh on 18<sup>th</sup> & 19<sup>th</sup>. Isolated heavy to very heavy rainfall also likely over Odisha & Chhattisgarh on 18<sup>th</sup> August, 2026.**

**Realised weather during past 24 hours ending at 0830 hours IST of today, the 18<sup>th</sup> August, 2026:**

- ❖ **Extremely heavy rainfall ( $\geq 21$  cm)** has been recorded over Uttarakhand, Gangetic West Bengal & Odisha.
- ❖ **Very Heavy rainfall (12-20 cm)** has been recorded over Chhattisgarh, Assam & Meghalaya, Jharkhand, Bihar & Uttar Pradesh.
- ❖ **Heavy rainfall (7-11 cm)** has been recorded over Konkan, Madhya Maharashtra, Tripura, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Himachal Pradesh & Arunachal Pradesh.

**Weather Systems, Forecast and Warnings (Annexure I & II):**

- ❖ The western end of **monsoon trough** is north of its normal position and eastern end is near its normal position in lower tropospheric levels.
- ❖ Yesterday's **Depression** over northwest Bay of Bengal & adjoining West Bengal-north Odisha coasts moved west-northwestwards and lay over at Jharkhand and adjoining northern parts of Gangetic West Bengal at 0830 hrs IST of today, the 18<sup>th</sup> August 2026. It is very likely to continue to move west-northwestwards across Jharkhand & Bihar and weaken into a well-marked low-pressure area during next 24 hours.
- ❖ An **upper air cyclonic circulation** lies over north Haryana & neighbourhood in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over East Uttar Pradesh & neighbourhood in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over Punjab & neighbourhood at 5.8 km above mean sea level with a trough aloft at its axis at 7.6 km above mean sea level runs roughly along Long. 75°E to the north of Lat. 30°N.

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

**Northwest India:**

- ❖ **Fairly Widespread to Widespread** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18th-23rd August; Himachal Pradesh during 18th-22nd August; Uttarakhand during 18th-24th August.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Punjab on 19th August; Haryana Chandigarh & Delhi on 19th August and on 22nd August; West Uttar Pradesh during 18th-19th August and on 22nd August; East Uttar Pradesh on 18th August and during 21st-24th August.
- ❖ **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 24th August; Himachal Pradesh during 23rd-24th August.
- ❖ **Isolated to Scattered** rainfall likely over rest parts of northwest India.
- ❖ Isolated **thunderstorm & lightning** likely over Uttarakhand during 18th-24th August; West Uttar Pradesh on 18th August.
- ❖ Isolated **heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18th-21st August; Himachal Pradesh during 19th-21st August; Uttarakhand during 20th-24th August; Haryana Chandigarh & Delhi and Punjab during 18th-19th August; West Uttar Pradesh on 18th August and during 21st-22nd August; East Uttar Pradesh during 18th-23rd August; East Rajasthan during 21st-22nd August with isolated **very heavy rainfall** also likely over Himachal Pradesh on 18th August; Uttarakhand & East Uttar Pradesh during 18th-19th August; West Uttar Pradesh during 19th-20th August.
- ❖ **Isolated extremely heavy rainfall likely over southeast Uttar Pradesh on 18<sup>th</sup> & 19<sup>th</sup> August.**

### Central India:

- ❖ **Isolated to Scattered** rainfall likely over West Madhya Pradesh during 18th-19th August and during 23rd-24th August; Vidarbha during 19th-20th August; Chhattisgarh during 21st-22nd August.
- ❖ **Fairly Widespread to Widespread** rainfall likely over West Madhya Pradesh during 20th-22nd August; East Madhya Pradesh during 18th-24th August; Vidarbha on 18th August and during 21st-24th August; Chhattisgarh during 18th-20th August and during 23rd-24th August.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over East Madhya Pradesh and West Madhya Pradesh during 18th-22nd August.
- ❖ Isolated **thunderstorm & lightning** likely over Chhattisgarh during 18th-22nd August.
- ❖ Isolated **heavy rainfall** likely over West Madhya Pradesh during 20th-21st August and on 23rd August; East Madhya Pradesh on 18th August and during 21st-23rd August; Vidarbha during 18th-19th August; Chhattisgarh on 19th August with isolated **very heavy rainfall** also likely over West Madhya Pradesh on 22nd August; East Madhya Pradesh during 18th-20th August; Chhattisgarh on 18th August.
- ❖ **Isolated extremely heavy rainfall likely over northeast Madhya Pradesh on 18<sup>th</sup> August.**

### East India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands, Gangetic West Bengal and Sub-Himalayan West Bengal & Sikkim during 18th-24th August; Jharkhand during 18th-19th August and during 23rd-24th August; Bihar on 18th August and during 21st-23rd August; Odisha during 18th-19th August and during 22nd-24th August.
- ❖ **Isolated to Scattered** rainfall likely over Jharkhand during 20th-22nd August; Bihar during 19th-20th August and on 24th August; Odisha during 20th-21st August.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jharkhand on 18th August, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Gangetic West Bengal and Sub-Himalayan West Bengal & Sikkim during 18th-20th August; Jharkhand on 19th August; Bihar during 18th-24th August.
- ❖ Isolated **thunderstorm & lightning** likely over Odisha on 18th August and on 22nd August.
- ❖ Isolated **heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 18th-22nd August and on 24th August; Gangetic West Bengal on 18th August and during 23rd-24th August; Jharkhand during 18th-19th August; Bihar during 18th-19th August and during 21st-23rd August; Odisha during 22nd-24th August with isolated **very heavy rainfall** also likely over Odisha on 18th August.
- ❖ **Isolated extremely heavy rainfall likely over Jharkhand on 18<sup>th</sup> August.**

### Northeast India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 18th-24th August.
- ❖ Isolated **thunderstorm & lightning** likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 18th-22nd August.
- ❖ Isolated **heavy rainfall** likely over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura during 18th-24th August; Assam & Meghalaya during 19th-24th August with isolated **very heavy rainfall** also likely over Assam & Meghalaya on 18th August.

### West India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Konkan & Goa during 18th-24th August.
- ❖ **Isolated to Scattered** rainfall likely over Gujarat Region, Madhya Maharashtra, Marathwada and Saurashtra & Kutch during 18th-24th August.
- ❖ Isolated **thunderstorm & lightning** likely over Madhya Maharashtra on 19th August; Marathwada during 18th-19th August.

### South Peninsular India:

- ❖ **Isolated to Scattered** rainfall likely over Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Telangana during 18th-24th August; Kerala & Mahe and Lakshadweep during 21st-22nd August.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe and Lakshadweep during 18th-20th August and during 23rd-24th August; Coastal Karnataka during 18th-24th August.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal during 18th-20th August, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Coastal Karnataka and South Interior Karnataka during 18th-20th August; Coastal Andhra Pradesh & Yanam and Rayalaseema during 18th-22nd August; Telangana during 18th-19th August.
- ❖ Isolated **heavy rainfall** likely over South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal on 19th August; Coastal Karnataka and Kerala & Mahe during 18th-19th August.
- ❖ Strong Surface Winds likely over Coastal Karnataka, North Interior Karnataka and South Interior Karnataka during 18th-20th August; Coastal Andhra Pradesh & Yanam and Rayalaseema during 18th-22nd August.

### Wind Warning:

- ❖ Squally winds with speed reaching 40-50 kmph gusting to 60 kmph are likely to prevail over North Bay of Bengal & along and off West Bengal-Bangladesh; Odisha & north Andhra Pradesh coasts till morning of 19th August and would decrease gradually thereafter.
- ❖ Squally winds with speed reaching 35-45 kmph gusting to 55 kmph are likely over Jharkhand and adjoining areas of northern parts of Gangetic West Bengal till evening of 18th August and over Jharkhand & adjoining Bihar-north Chhattisgarh till morning of 19th August.

### Sea Condition:

- ❖ Sea condition is very likely to be very rough to rough over North Bay of Bengal & along and off West Bengal-Bangladesh; Odisha & north Andhra Pradesh coasts till morning of 19th August and improve gradually thereafter.

### Fishermen Warning

- ❖ Fishermen are advised not to venture into North Bay of Bengal & along and off West Bengal-Bangladesh; Odisha & north Andhra Pradesh coasts till morning of 19th August.

### Weather conditions and forecast over Delhi/NCR during next 4 days (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/fishermenwarning.php>

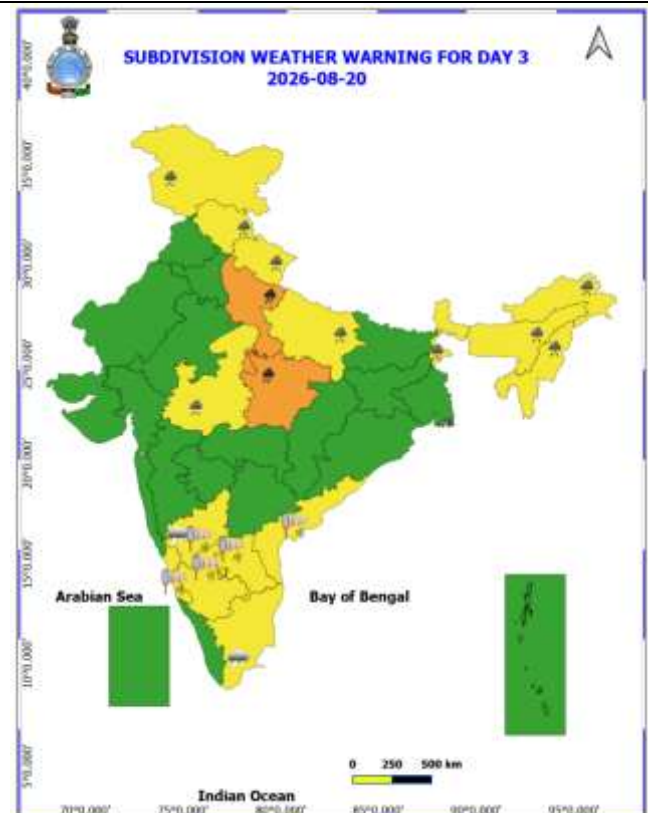
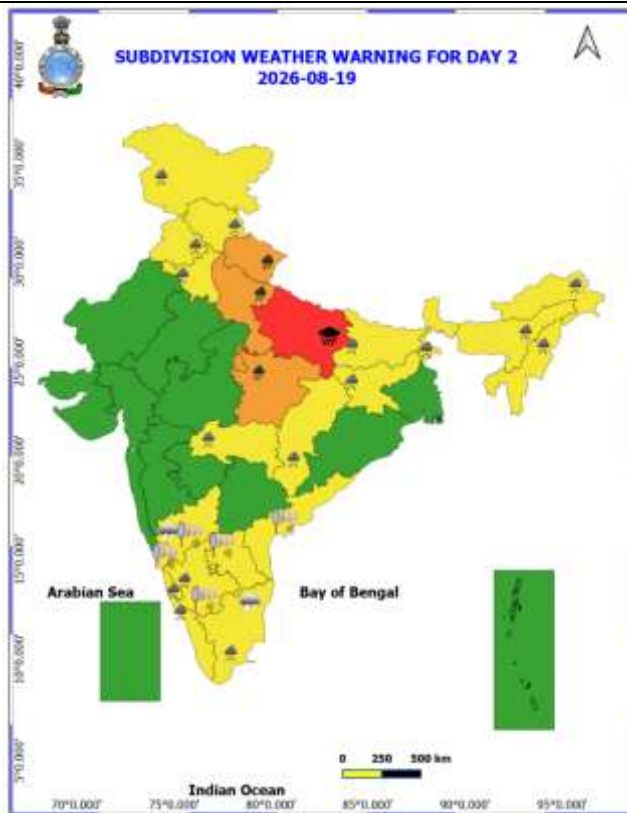
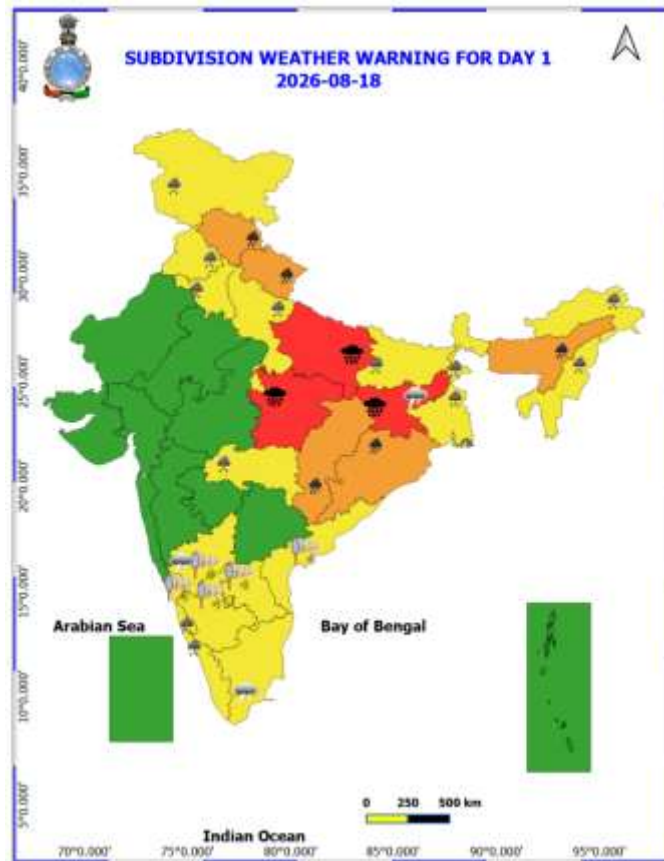
For national bulletin associated with the Depression refer [https://rsmcnewdelhi.imd.gov.in/national\\_bulletin.php](https://rsmcnewdelhi.imd.gov.in/national_bulletin.php)

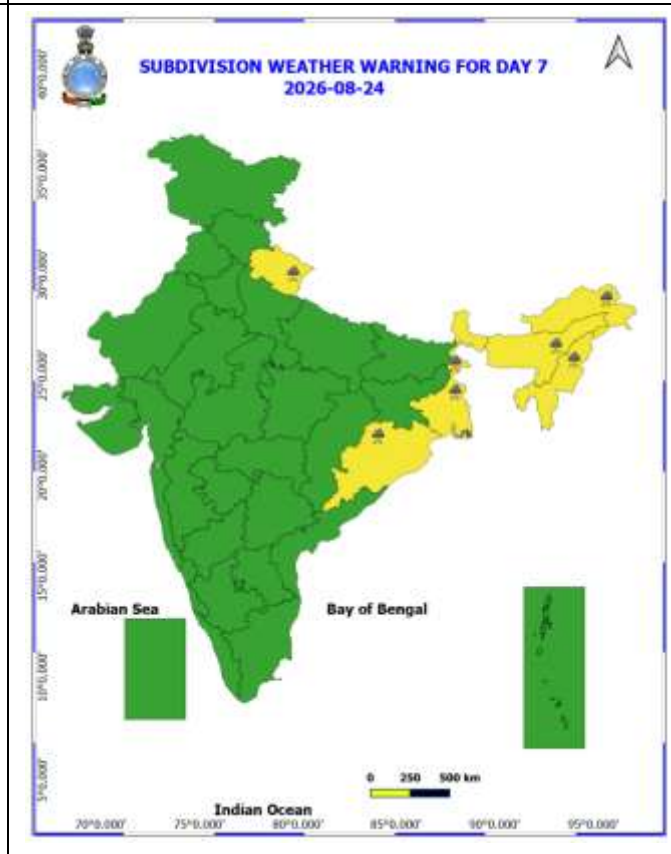
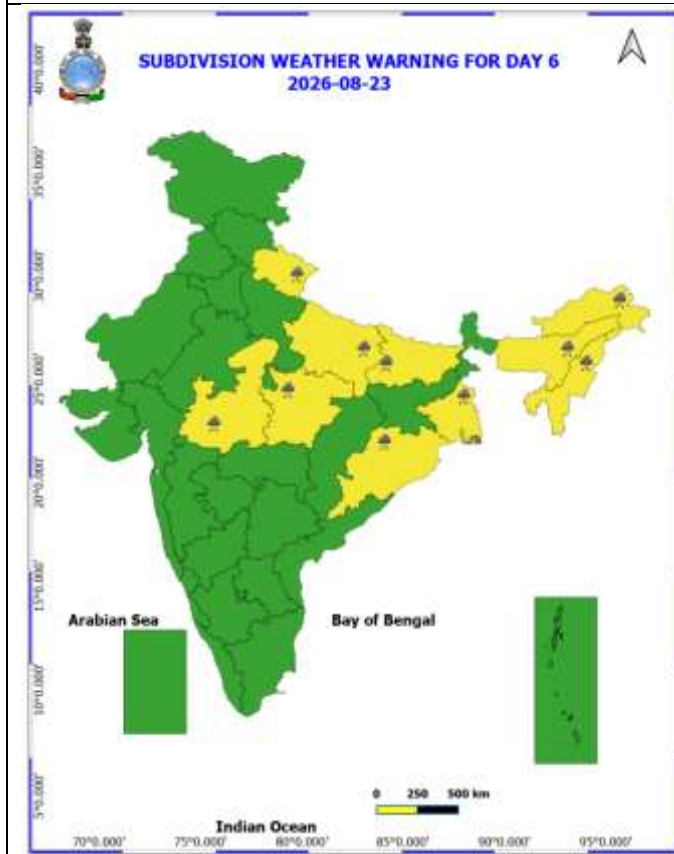
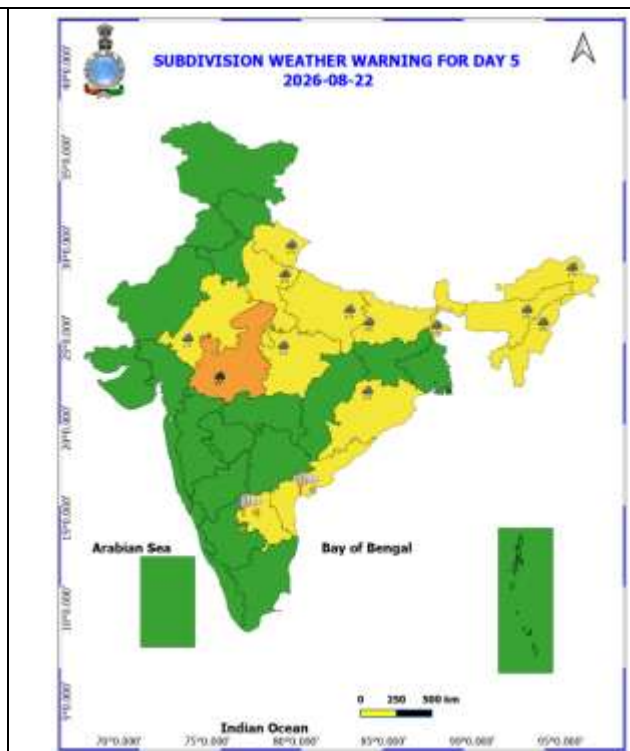
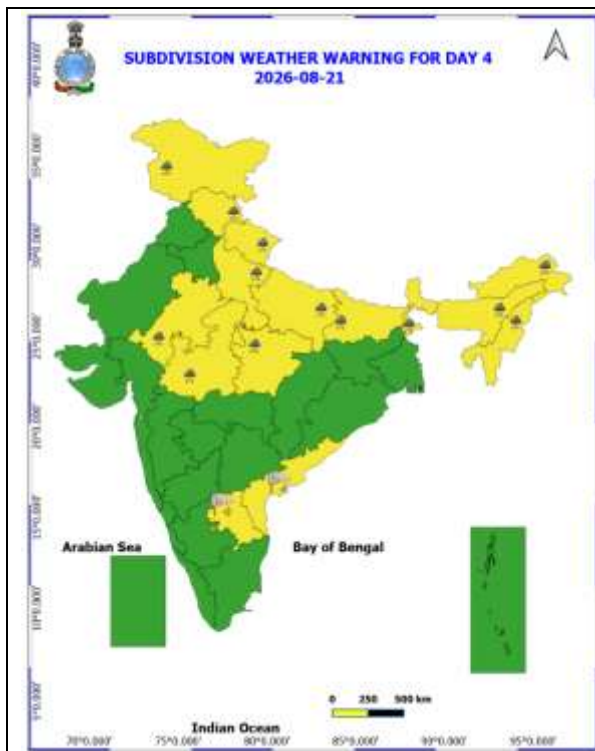
### Highest rainfall recorded (> 7 cm) (from 0830 hours IST of yesterday to 0830 hours IST of today over different Meteorological Subdivision):

- ❖ **Uttarakhand:** Narendra Nagar 27
- ❖ **Odisha:** Bahalda 27
- ❖ **Gangetic West Bengal:** Burnpur 22
- ❖ **Uttar Pradesh:** Meja (Prayagraj) 19, Dhampur (Bijnor) 16
- ❖ **Chhattisgarh:** Korba 18
- ❖ **Jharkhand:** Jamtara 15
- ❖ **Assam:** Kokrajhar 14
- ❖ **Meghalaya:** Mawkyrwat (South West Khasi Hills) 14
- ❖ **Bihar:** Gaya 12
- ❖ **Konkan:** Matheran (Raigad) 8
- ❖ **East Madhya Pradesh:** Lavkushnagar (Chhatarpur) 8
- ❖ **Himachal Pradesh:** Kothi (Dist. Kullu) 7
- ❖ **Madhya Maharashtra:** Tamini-Mulshi (Pune) 7
- ❖ **Arunachal Pradesh:** Longding(Aws) 9
- ❖ **Tripura:** Sonamura Mohanbhog(Sepahijala) 7
- ❖ **Sub-Himalayan West Bengal:** Kumargram -7
- ❖ **Himachal Pradesh:** Kothi(Dist. Kullu) 7

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

- 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 district-wise Multi-Hazard weather warning for next five days available at  
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

**Weather forecast over Delhi/NCR during 18<sup>th</sup> to 21<sup>st</sup> August 2026****Past Weather:**

There has been rise in maximum temperatures by 1°C and no large change in minimum temperatures over Delhi during past 24 hours. The maximum temperatures were 35-36°C and the minimum temperatures are in the range 24-28°C respectively during past 24 hours over Delhi. The minimum temperatures are above normal (1.6°C to 3.0°C) at a few places and normal (-1.5°C to 1.5°C) at remaining parts of Delhi. The maximum temperatures were above normal (1.6°C to 3.0°C) at many places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi. Generally cloudy sky with surface wind speed 20 kmph from the west direction prevailed over Delhi during past 24 hours. Partly cloudy sky with surface wind speeds up to 18 kmph likely to prevail from the west direction over the region in the forenoon today.

**Weather Forecast:**

**18.08.2026:** Partly cloudy sky. A spell of very light to light rain during afternoon to evening. The maximum temperatures over Delhi are likely to be in the range of 34-36°C. The maximum temperatures will be near normal (-1.5°C to 1.5°C) at many places with above normal (1.6°C to 3.0°C) at isolated places over Delhi. The predominant surface wind is likely to be from the northwest direction with surface wind speed reaching up to 15 kmph during the afternoon. The wind speed will decrease becoming up to 12 kmph from the east direction during evening and night.

**19.08.2026:** Generally cloudy sky. One or two spells of very light to light rain at many places with moderate rain at isolated places during early morning to noon. Another spell of very light to light rain during evening to night. The maximum and minimum temperatures over Delhi are likely to be in the range of 32°C to 34°C and 26°C to 28°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the east direction with surface wind speed reaching up to 15 kmph during the morning hours. The wind speed will decrease becoming up to 12 kmph from the northeast direction during afternoon. The wind speed will increase becoming up to 15 kmph from the east direction during evening and night.

**20.08.2026:** Generally cloudy sky. One or two spells of very light to light rain at many places with moderate rain at a few places during early morning to noon. Another spell of very light to light rain during evening to night. The maximum and minimum temperatures over Delhi are likely to be in the range of 32°C to 34°C and 26°C to 28°C respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from northeast direction with surface wind speed reaching up to 18 kmph during the morning. The wind speed will decrease becoming up to 15 kmph from the east direction during afternoon. The wind speed will increase becoming up to 20 kmph from the south direction during evening and night.

**21.08.2026:** Generally cloudy sky. A spell of very light to light rain at a few places during early morning to afternoon. The maximum and minimum temperatures over Delhi are likely to be in the range of 32°C to 34°C and 25°C to 27°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the northwest direction with wind reaching up to 15 kmph during the morning hours. The surface wind speed will decrease becoming up to 12 kmph from the north direction during afternoon. The surface wind speed will increase becoming up to 20 kmph from the southeast direction during evening and night.

### **Impact Expected and Action Suggested due to very heavy rainfall:**

- ❖ **Isolated extremely heavy rainfall likely over East Madhya Pradesh and Jharkhand on 18<sup>th</sup> and southeast Uttar Pradesh on 18<sup>th</sup> & 19<sup>th</sup> August.**
- ❖ **Moderate to severe lightning activity over Bihar on 18<sup>th</sup> August.**

### **Impact expected:**

- ❖ Breaking of tree branches, uprooting of small trees like banana, papaya, drum sticks. Strong wind and rain may damage plantation, horticulture and standing crops.
- ❖ Partial damage to vulnerable structures due to strong winds and rain.
- ❖ Minor damage to kutcha houses/walls, huts and roads due to heavy rain.
- ❖ Loose objects may fly.
- ❖ Small ships, trawlers and boats may be affected.
- ❖ Road and rail traffic may be affected due to heavy rain and squally winds.
- ❖ There could be localised landslides, mudslides, landslips, water logging, inundation and flooding over low lying areas.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Helicopter services may get affected.

### **Action suggested:**

- ❖ People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- ❖ Take safe shelters; do not take shelter under trees, as there could be lightning.
- ❖ In case of expected lightning, unplug electrical/ electronic appliances, immediately, get out of water bodies and keep away from all the objects that conduct electricity.
- ❖ Tourism and recreational activities to be regulated.
- ❖ Onshore and offshore activities to be judiciously regulated.
- ❖ Helicopter services to be regulated.

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

- In Odisha, drain out excess water from kharif rice, maize, pulses, cotton, pigeon pea, banana, vegetable fields and nursery beds. Keep field drains, outlets and bunds clear and functional. In waterlogged areas, postpone sowing/re-sowing of maize and green gram and prevent water stagnation in pearl millet. Provide staking/support to vegetables, banana, papaya and young horticultural plants. Protect tomato, chilli and brinjal nurseries with polythene sheets and postpone rice and horticultural crop transplanting in waterlogged fields until suitable soil conditions are restored.
- In West Bengal, drain out excess rain water in Aman rice, jute, rice nurseries and vegetable fields and remove excess water from low-lying areas. Keep drainage channels clear and strengthen bunds around rice nurseries to prevent flooding. Avoid fertilizer and pesticide application during rainfall and harvest mature jute, tea leaves and vegetables wherever field conditions permit, keeping the produce in a safe and dry place.
- In Jharkhand, ensure proper drainage in maize, pigeon pea and other standing crops and remove excess rainwater promptly. In areas where sowing of pigeon pea is not yet completed, postpone sowing until suitable soil conditions prevail. Avoid fertilizer and plant protection operations during wet conditions.
- In East Madhya Pradesh, ensure proper drainage in rice, maize, soybean, urad, moong, sesame, other standing crops and vegetables. Clean field drains and create temporary drainage channels for quick removal of excess water.
- In Uttar Pradesh, ensure continuous and effective drainage drain out excess water from paddy, pigeon pea, pulses, oilseeds and vegetable fields, particularly from low-lying areas.
- In Uttarakhand, maintain proper and effective drainage in rice, soybean, maize, red gram, ginger, garlic, barnyard millet, finger millet, tomato and other standing crop fields. Delay sowing of groundnut, soybean and maize until conditions become suitable. Harvest mature tomato, French bean and potato and keep the produce in a safe, dry place.
- In Himachal Pradesh, keep drainage channels in ginger and turmeric fields clear and functional and ensure prompt removal of excess rainwater from maize fields. Harvest mature cucumber, bottle gourd, bitter gourd, snake gourd, ridge gourd and sponge gourd wherever field conditions permit.
- In Chhattisgarh, ensure continuous and effective drainage from rice, maize, groundnut, minor millets and pulses fields and other standing crops. Provide staking to creeper vegetables such as bitter gourd, bottle gourd and other cucurbits. Postpone fresh transplantation of rice in lowland areas.
- In Bihar, ensure proper drainage of excess rainwater from rice, maize, pulses and other standing crop fields and postpone fertilizer and pesticide application during wet conditions. Continue transplanting of rice and planting of banana and yam only where field conditions permit.

- In Jammu & Kashmir, prevent water stagnation in pulses and vegetable fields and provide proper support to cucurbit plants. Ensure effective drainage in maize fields, particularly following heavy rain.
- In Punjab, maintain proper drainage in standing crop fields and avoid irrigation, fertilizer application and plant protection operations during wet conditions. Resume field operations only when soil conditions become suitable.
- In Haryana, maintain proper drainage in standing crop fields and promptly remove excess rainwater. Avoid irrigation, fertilizer and plant protection operations during rainfall and keep drainage channels clear.
- In Assam and Meghalaya, maintain proper drainage and keep field channels clear in rice, sugarcane, soybean, pigeon pea, jute, sesame and vegetable fields and orchards. Remove excess water promptly from low-lying fields and prevent water stagnation in sugarcane. In Meghalaya, ensure drainage in maize, cowpea, okra and ginger fields and remove excess water.
- In Arunachal Pradesh, maintain proper drainage in maize, finger millet, soybean, cowpea, vegetable fields and orchards to prevent waterlogging.
- In Nagaland, Manipur, Mizoram and Tripura, maintain proper drainage in rice, soybean, black gram, ginger, turmeric, cole crops and vegetable fields and prevent water stagnation. Postpone fertilizer and plant protection operations during wet conditions and provide staking/support to vulnerable crops wherever required.

#### 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 securely and cover them to minimize the risk of displacement from 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.

#### Livestock / Poultry / Fisheries

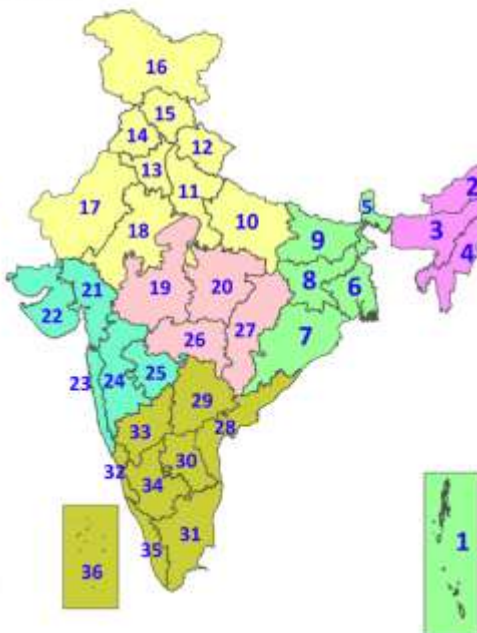
- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store the feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain excess water, thereby preventing fish from escaping in the event of overflow.

#### 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 Marathwada.
  - **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 \*

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

### Heat Wave

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

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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

(b). Based on Actual maximum temperature

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

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

(c). Criteria for heat wave for coastal stations

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

### Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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

### Cold Wave

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

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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

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

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

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

(c) For Coastal Stations

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

### Cold Day

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

Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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

### Fog

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

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility  $< 50$  metres

### Thunderstorm

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

### Dust/Sand Storm

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

### Frost

Ice deposits on ground

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

### Squall

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

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed  $> 87$  kmph

### Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed  $> 117$  kmph ( $> 63$  knots) & Wave height  $> 14$  metre

### Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-185 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 186-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

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