



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 17th July 2026

Time of Issue: 1330 hours IST

- Subject:** (i) The well-marked low-pressure area weakened into a low-pressure area over West Bengal & neighbourhood, under its influence isolated extremely heavy rainfall likely over Chhattisgarh and heavy to very heavy rainfall over Odisha, today, the 17th July, 2026.
- (ii) Isolated heavy to very heavy rainfall also likely over northeast India, Sub-Himalayan West Bengal & Sikkim, Bihar, Uttar Pradesh and Western Himalayan Region during next 7 days. Isolated extremely heavy rainfall also likely over Sub-Himalayan West Bengal & Sikkim on 18th & 19th July, 2026.
- (iii) Subdued rainfall activity likely to continue over westcentral & south Peninsular India during next 7 days and over plains of northwest India during next 3 days.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 17th July, 2026:

- ❖ Exceptionally heavy rainfall has been recorded over Chhattisgarh.
- ❖ Extremely heavy rainfall (≥ 21 cm) has been recorded over Odisha and Coastal Karnataka.
- ❖ Very Heavy rainfall (12-20 cm) has been recorded over Uttarakhand, Goa, Interior Karnataka and Kerala.
- ❖ Heavy rainfall (7-11 cm) has been recorded over East Uttar Pradesh, East Madhya Pradesh, Rayalaseema, Telangana, Meghalaya and Manipur.
- ❖ Thunderstorm accompanied with Squally/Gusty winds with speed reaching 40-60 kmph at isolated places over Gujarat State, West Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, East Rajasthan, East Uttar Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa and Marathawada.

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

- ❖ Yesterday's **Well-marked low pressure area** over north Odisha and adjoining Jharkhand & Gangetic West Bengal weakened into a **low Pressure area over the same region** at 0530 hrs IST today. It further moved northwestwards and lay over Gangetic West Bengal and adjoining Jharkhand & north Odisha at 0830 hrs IST of today, 17th July, 2026. It is very likely to weaken gradually during next 24 hrs.
- ❖ The western end of the **Monsoon trough** is north its normal position and its eastern end is near its normal position in lower tropospheric levels.
- ❖ A fresh **Western Disturbance** lay as cyclonic circulation over north Pakistan & neighbourhood with a trough aloft in middle tropospheric level roughly along Long. 67°E to the north of Lat. 30°N.
- ❖ An **upper air cyclonic circulation** lies over north Haryana & neighbourhood in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over northeast Assam & neighbourhood in lower tropospheric level.
- ❖ A **trough** runs from North Lakshadweep area to southwest Bay of Bengal in middle tropospheric level.

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

Northwest India:

- ❖ **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 17th-18th July; Himachal Pradesh on 17th July.
- ❖ **Isolated to Scattered** rainfall likely over Haryana Chandigarh & Delhi and Punjab during 17th-19th July and on 23rd July; West Uttar Pradesh during 17th-18th July; East Uttar Pradesh on 17th July; West Rajasthan during 18th-23rd July; East Rajasthan during 17th-23rd July.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 19th-23rd July; Himachal Pradesh during 18th-23rd July; Uttarakhand during 17th-23rd July.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Haryana Chandigarh & Delhi and Punjab during 20th-22nd July; West Uttar Pradesh during 19th-23rd July; East Uttar Pradesh during 18th-23rd July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 17th-23rd July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over East Rajasthan and West Rajasthan during 20th-23rd July.

- ❖ Isolated **thunderstorm & lightning** likely over Uttarakhand during 17th-23rd July; East Uttar Pradesh and West Uttar Pradesh during 17th-21st July.
- ❖ Isolated **heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Uttar Pradesh on 19th July and on 23rd July; Himachal Pradesh on 18th July and on 23rd July; Uttarakhand on 17th July and during 22nd-23rd July; Haryana Chandigarh & Delhi and Punjab during 20th-22nd July; East Uttar Pradesh on 18th July and during 22nd-23rd July with isolated **very heavy rainfall** also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Uttar Pradesh during 20th-22nd July; Himachal Pradesh during 19th-22nd July; Uttarakhand during 18th-21st July; East Uttar Pradesh during 19th-21st July.

Central India:

- ❖ **Isolated to Scattered** rainfall likely over West Madhya Pradesh during 17th-20th July; Vidarbha during 19th-23rd July.
- ❖ **Fairly Widespread to Widespread** rainfall likely over West Madhya Pradesh during 21st-23rd July; Chhattisgarh and East Madhya Pradesh during 17th-23rd July; Vidarbha during 17th-18th July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over East Madhya Pradesh and West Madhya Pradesh during 17th-21st July, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Vidarbha during 17th-18th July.
- ❖ Isolated **thunderstorm & lightning** likely over Vidarbha on 19th July; Chhattisgarh during 17th-21st July.
- ❖ Isolated **heavy rainfall** likely over East Madhya Pradesh during 17th-21st July; Vidarbha on 17th July; Chhattisgarh during 19th-21st July with isolated **very heavy rainfall** also likely over Chhattisgarh during 17th-18th July.
- ❖ **Heavy to very heavy rainfall at few places with extremely heavy rainfall** likely at isolated places over Chhattisgarh on 17th July.

East India:

- ❖ **Isolated to Scattered** rainfall likely over Andaman & Nicobar Islands during 17th-19th July and on 23rd July; Bihar on 17th July and during 22nd-23rd July; Odisha during 19th-23rd July.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 20th-22nd July; Gangetic West Bengal, Jharkhand and Sub-Himalayan West Bengal & Sikkim during 17th-23rd July; Bihar during 18th-21st July; Odisha during 17th-18th July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Gangetic West Bengal on 17th July; Jharkhand during 17th-21st July, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Andaman & Nicobar Islands and Bihar during 17th-23rd July; Sub-Himalayan West Bengal & Sikkim on 17th July; Gangetic West Bengal during 18th-23rd July.
- ❖ Isolated **thunderstorm & lightning** likely over Sub-Himalayan West Bengal & Sikkim during 18th-23rd July.
- ❖ Isolated **heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 18th-19th July and during 21st-22nd July; Gangetic West Bengal on 17th July; Jharkhand during 17th-20th July; Bihar during 17th-18th July and during 21st-23rd July; Odisha during 18th-20th July with isolated **very heavy rainfall** also likely over Sub-Himalayan West Bengal & Sikkim on 17th July and on 20th July; Bihar during 19th-20th July; Odisha on 17th July.
- ❖ **Heavy to very heavy rainfall at few places with extremely heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim on 18th & 19th July.

Northeast India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Arunachal Pradesh and Assam & Meghalaya during 17th-20th July; Nagaland, Manipur, Mizoram & Tripura during 17th-22nd July.
- ❖ **Isolated to Scattered** rainfall likely over Arunachal Pradesh and Assam & Meghalaya during 21st-23rd July; Nagaland, Manipur, Mizoram & Tripura on 23rd July.
- ❖ Isolated **thunderstorm & lightning** likely over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura during 17th-19th July; Assam & Meghalaya during 17th-21st July.
- ❖ Isolated **heavy rainfall** likely over Arunachal Pradesh during 19th-23rd July; Assam & Meghalaya during 20th-23rd July; Nagaland, Manipur, Mizoram & Tripura during 17th-23rd July with isolated **very heavy rainfall** also likely over Arunachal Pradesh during 17th-18th July; Assam & Meghalaya during 17th-19th July.

West India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Konkan & Goa during 17th-23rd July.
- ❖ **Isolated to Scattered** rainfall likely over Gujarat Region, Madhya Maharashtra, Marathawada and Saurashtra & Kutch during 17th-23rd July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Goa on 17th; Madhya Maharashtra and Marathawada during 17th-19th July.
- ❖ Isolated **heavy rainfall** likely over Madhya Maharashtra and Marathawada on 17th July.

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 17th-23rd July; Kerala & Mahe and Lakshadweep during 22nd-23rd July.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe and Lakshadweep during 17th-21st July; Coastal Karnataka during 17th-23rd July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over North Interior Karnataka during 17th-19th July; South Interior Karnataka during 17th-18th July; Coastal Andhra Pradesh & Yanam during 17th-21st July; Rayalaseema on 17th July; Telangana during 19th-23rd July, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal during 17th-21st July; Kerala & Mahe during 17th-19th July; North Interior Karnataka during 20th-23rd July; South Interior Karnataka during 19th-23rd July; Rayalaseema during 18th-21st July.
- ❖ Isolated **heavy rainfall** likely over Kerala & Mahe during 17th-19th July; Coastal Karnataka during 18th-19th July; North Interior Karnataka during 17th-18th July; South Interior Karnataka on 18th July; Telangana on 17th July with isolated **very heavy rainfall** also likely over Kerala, Coastal Karnataka and South Interior Karnataka on 17th July.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Telangana during 17th-18th July.
- ❖ Strong Surface Winds likely over Coastal Karnataka and Rayalaseema during 17th-21st July; North Interior Karnataka, South Interior Karnataka and Telangana during 17th-23rd July.

Heat Wave, Hot & Humid weather and Warm Night conditions warning:

- ❖ **Hot and humid** weather conditions likely to prevail over Haryana Chandigarh & Delhi and Punjab during 17th-18th July; Coastal Andhra Pradesh & Yanam, East Uttar Pradesh, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and West Uttar Pradesh on 17th July.

Fishermen Warning:

Fishermen are advised not to venture:

Arabian Sea:

- ❖ Along and off Somalia coast over most parts of west central adjoining some parts of south west Arabian Sea during 17th to 22nd July, along and off South Gujarat coast and some parts of north and east central Arabian Sea during 18th to 22nd July; along and off Oman coast and sea areas during 19th to 22nd July, and North Maharashtra Coast during 20th to 22nd July.

Bay of Bengal:

- ❖ Along and off Gangetic West Bengal and Odisha coast adjoining most parts of north west Bay of Bengal on 17th July, along and off north Tamil Nadu coast adjoining some parts of southwest and few west central Bay of Bengal during 17th to 19th July, over southwest and adjoining west central Bay of Bengal during 19th to 21st July.

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

For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

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

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

- ❖ **Coastal Karnataka:** Ankola (Dist Uttara Kannada) 29, Gokarna (Dist Uttara Kannada) 21;
- ❖ **Chhattisgarh:** Bilaspur 28;
- ❖ **Odisha:** Hatadihi (dist Keonjhar) 21; Atabira (dist Bargarh) 16;
- ❖ **Kerala:** Padannakkad (Dist Kasargod) 17, Kudulu (Dist Kasargod) 13;
- ❖ **Uttarakhand:** Sama 13;
- ❖ **Goa:** Sanguem 13;
- ❖ **North Interior Karnataka:** Belagavi 13
- ❖ **South Interior Karnataka:** Shivamogga 12
- ❖ **East Uttar Pradesh:** Ankinghat (Kanpur City) 11
- ❖ **Telangana:** Banswada (Dist Kamareddy) 9;
- ❖ **South Interior Karnataka:** Agumbe Aws (Dist Shivamogga) 8, Kammardi (Dist Chikkamagaluru) 7,
- ❖ **East Madhya Pradesh:** Umaria-AWS 7;
- ❖ **Meghalaya:** RKM Sohra 10

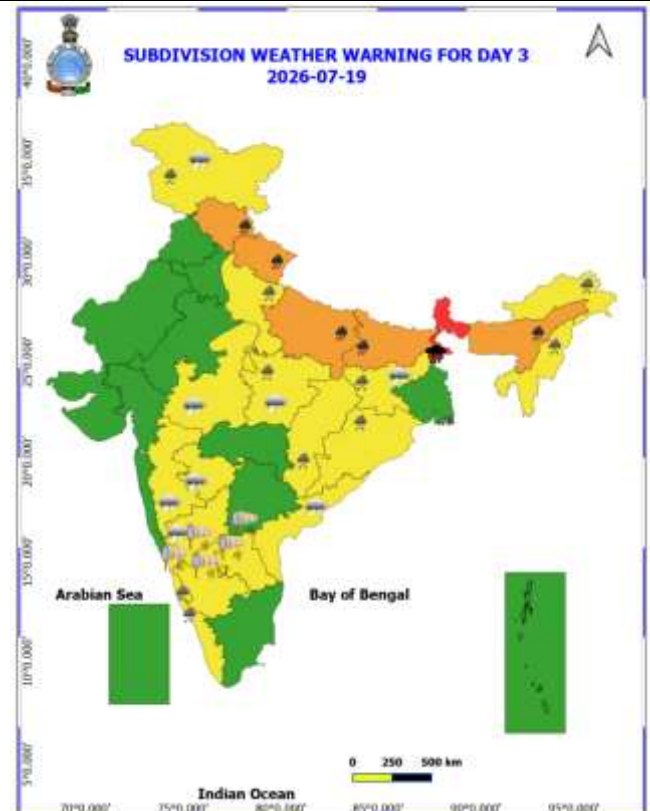
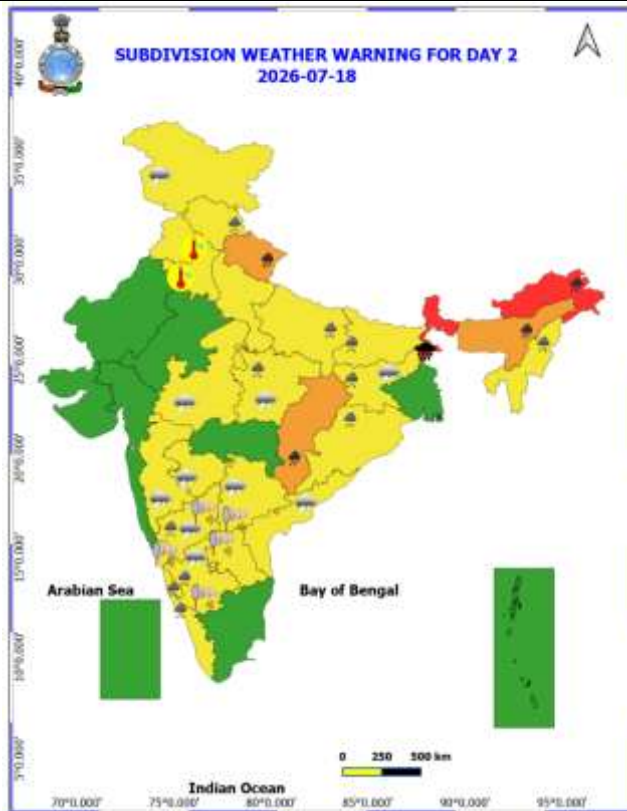
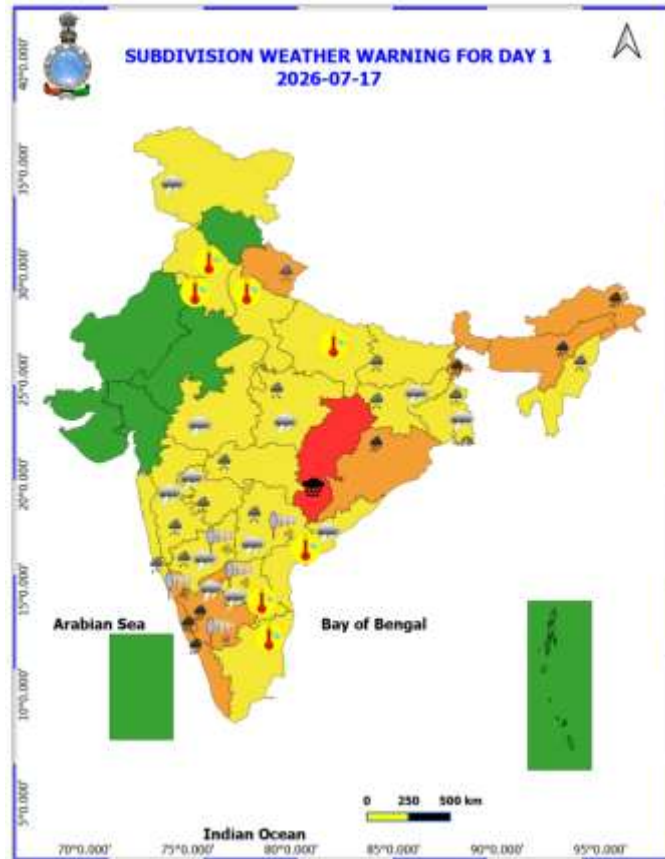
- ❖ **Rayalaseema:** Sri Sathya Sai 7
- ❖ **Manipur:** Kakching 7

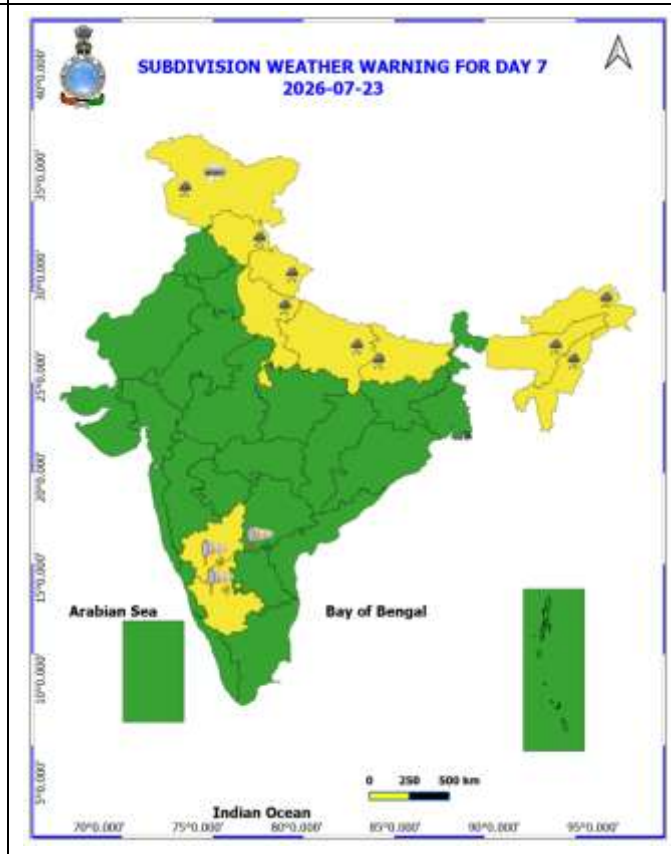
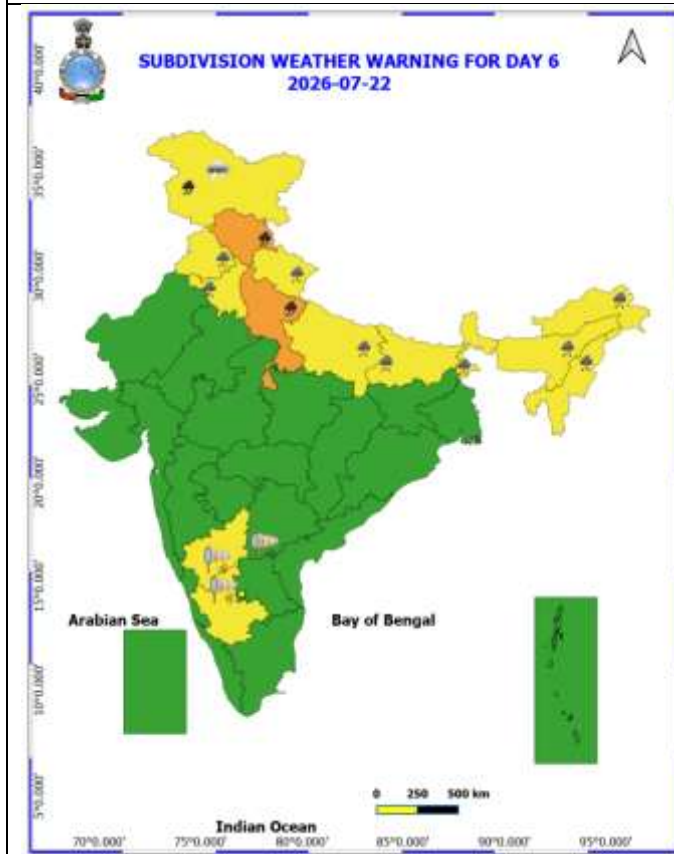
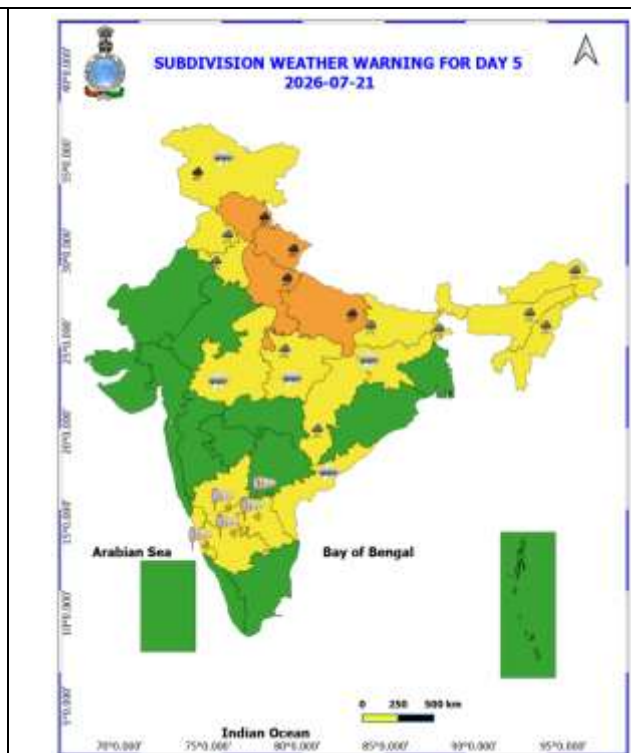
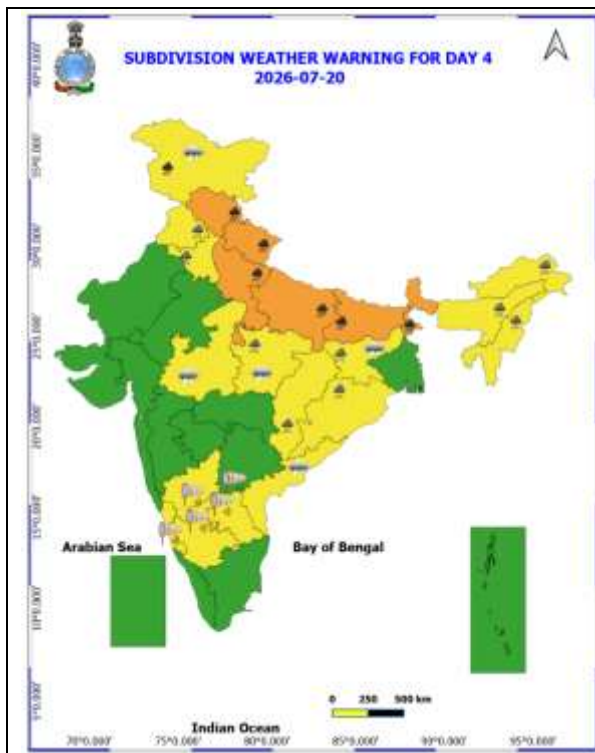
Gusty winds (in ≥ 40 kmph) (from 0830 hours IST of yesterday to 0830 hours IST of today):

- ❖ **East Uttar Pradesh:** Lucknow(Ap) - 56; Lucknow(AWS Integral University) - 54; Mirzapur(AWS) & Kanpur(IAF) - 46; Hardoi(AWS) - 41; Fatehpur(AWS) - 39
- ❖ **East Madhya Pradesh:** Tikamgarh - 50; Shahdol - 39; Satna - 35; Panna - 35; Seoni - 35; Umaria - 35; Sagar - 33; Chhindwara - 31
- ❖ **Madhya Maharashtra:** Dhule - 46; Baramati (Pune) - 46
- ❖ **East Rajasthan:** Ajmer - 45
- ❖ **Vidarbha:** 6- Akola - 43; Yavatmal - 39; Selsura - 37; Pausad - 31; Lonar - 31; Warda - 30
- ❖ **Chhattisgarh:** Mana - 43; Korba - 41
- ❖ **Konkan & Goa:** Kajat (Raigad) - 43; Dapoli - 31
- ❖ **Marathwada:** Chakur (Latur) - 41;

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

- 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 17th July to 20th July 2026**Past Weather:**

There has been rise in maximum temperature by 1°C and rise in minimum temperature by 1°C over Delhi during past 24 hours. The maximum temperatures were in the range of 38-39°C and the minimum temperatures are in the range 26-31°C respectively during past 24 hours over Delhi. The minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places, above normal (1.6°C to 3.0°C) at isolated places and normal (-1.5 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 most places over Delhi. Partly cloudy sky with surface wind speed 23 kmph from the west direction prevailed over Delhi during past 24 hours. Very light rain occurred at isolated places over Delhi during past 24 hours. Partly cloudy sky with surface wind speeds up to 25 kmph likely to prevailed from the west direction over the region in the forenoon today.

Weather Forecast:

17.07.2026: Partly cloudy sky. Hot and humid conditions at many places. Possibility of a spell of very light to light rain/thunderstorm/lightning at isolated places accompanied with strong surface wind speed reaching (20-30 kmph gusting to 40 kmph) towards afternoon/evening. The maximum temperatures over Delhi are likely to be in the range of 38-40°C. The maximum temperatures will be above normal (1.6°C to 3.0°C) at isolated places with appreciably above normal (3.1°C to 5.0°C) at many places over Delhi. The predominant surface wind is likely to be from the southwest direction with surface wind speed reaching up to 18 kmph during the afternoon hours. The wind speed will increase becoming up to 20 kmph from the west direction during evening and night.

18.07.2026: Generally cloudy sky. Hot and humid conditions at isolated places. A spell of very to light rain at isolated places accompanied with strong surface winds (20-30 kmph gusting to 40 kmph) towards morning/afternoon. The maximum and minimum temperatures over Delhi are likely to be in the range of 36°C to 38°C and 28°C to 30°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at isolated places with above normal (1.6°C to 3.0°C) at many places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at isolated places with above normal (1.6°C to 3.0°C) at many places over Delhi. The predominant surface wind is likely to be from southwest direction with surface wind speed reaching up to 25 kmph during the morning hours. The wind speed will decrease becoming up to 16 kmph from the southwest direction during the afternoon. The wind speed will increase becoming up to 20 kmph from the west direction during evening and night.

19.07.2026: Generally cloudy sky. Hot and humid conditions at isolated places. A spell of very light to light rain/thunderstorm/lightning accompanied with strong surface wind speed reaching (20-30 kmph gusting to 40 kmph) towards forenoon/ afternoon. The maximum and minimum temperatures over Delhi are likely to be in the range of 36°C to 38°C and 27°C to 29°C, respectively. The minimum temperature 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, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at isolated places with above normal (1.6°C to 3.0°C) at many places over Delhi. The predominant surface wind is likely to be from west direction with surface wind speed reaching up to 20 kmph during the morning hours. The wind speed will decrease becoming up to 18 kmph from the northwest direction during the afternoon. The wind speed will decrease becoming up to 15 kmph from the southeast direction during evening and night.

20.07.2026: Generally cloudy sky. A spell of very light to light rain/thunderstorm/lightning accompanied with strong surface wind speed reaching (20-30 kmph gusting to 40 kmph) towards morning/forenoon. Another spell of very light to light rain/thunderstorm/lightning accompanied with strong surface wind speed reaching (20-30 kmph gusting to 40 kmph) towards night. 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 many places with below normal (-1.6°C to -3.0°C) at isolated places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at many places with below normal (-1.6°C to -3.0°C) at isolated places over Delhi. The predominant surface wind is likely to be from the west direction with wind reaching up to 25 kmph during the morning hours. The surface wind speed will decrease becoming up to 15 kmph from the northwest direction during the afternoon. The wind speed will increase becoming up to 20 kmph from the northwest direction during evening and night.

Impact Expected & Action Suggested due to heavy/very heavy/extremely heavy rainfall

- ❖ **Heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Chhattisgarh on 17th; Sub-Himalayan West Bengal & Sikkim on 18th & 19th July.**

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 Heavy Rainfall

- In **Assam**, maintain continuous and effective drainage of excess rainwater from sugarcane, soybean, pigeon pea, jute, sesame fields and fruit orchards to prevent prolonged waterlogging. Harvest mature crops wherever field conditions permit.
- In **Meghalaya**, maintain effective drainage in rice nursery beds and fields of maize, cowpea, okra and ginger. Strengthen nursery bunds and field channels to prevent runoff, seedling washout and waterlogging.
- In **Chhattisgarh**, maintain continuous drainage in rice nurseries and standing fields of maize, soybean, pigeon pea and minor millets to prevent prolonged waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.
- In **Arunachal Pradesh**, ensure continuous drainage of excess rainwater from rice, maize, soybean and finger millet fields to prevent prolonged waterlogging.
- In **Nagaland, Manipur, Mizoram and Tripura** ensure continuous and effective drainage and remove any accumulated rainwater from soybean, black gram, ginger, turmeric, cole crop and vegetable fields to prevent residual waterlogging.
- In **Sikkim**, ensure proper drainage in rice nurseries and standing crop fields to prevent waterlogging.
- In **West Bengal**, ensure continuous and effective drainage in rice nurseries, jute, ginger and vegetable fields to prevent prolonged waterlogging. Inspect and strengthen bunds around rice nurseries and harvest mature tea leaves and vegetables wherever field conditions permit.
- In **Jharkhand**, ensure proper drainage in standing crop fields to prevent waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.
- In **Bihar**, ensure continuous drainage in rice, maize, sesame and pigeon pea fields to prevent prolonged waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.
- In **Odisha**, maintain continuous drainage and keep field channels clear to prevent prolonged waterlogging in rice, maize, pulses, oilseed and vegetable fields. Strengthen field bunds and postpone irrigation, fertilizer and plant protection operations until field conditions become suitable.
- In **Uttarakhand**, postpone sowing of groundnut, soybean and maize. Ensure proper drainage in rice, tomato and chilli fields to prevent waterlogging. Harvest mature tomato only during rain-free periods and continue rice transplanting wherever field conditions permit.
- In **Himachal Pradesh**, ensure proper drainage in maize, finger millet, cucurbit, tomato and capsicum fields to prevent waterlogging. Harvest mature crops wherever field conditions permit.
- In **East Uttar Pradesh**, ensure proper drainage in rice, maize, sesame and pigeon pea fields to prevent waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.

- In **Keralam**, provide adequate drainage facilities in banana, coconut, cardamom, ginger, black pepper and vegetables. Provide staking support in banana plants and strengthen the pandals of vegetable crops. Avoid transplanting of rice during heavy rain.
- In **Karnataka**, ensure proper drainage in rice seedbeds, rice fields and fruit orchards fields of maize and ginger and plantations of arecanut and coconut to prevent water stagnation.
- In the regions expecting heavy rainfall, including **Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha and Telangana** withhold irrigation in standing crops, make necessary arrangements to remove excess rain water from the crop 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 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

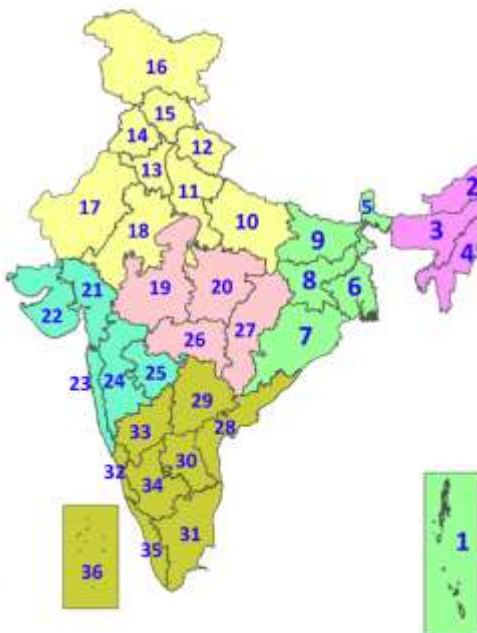
- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store the feed and fodder in a safe place to prevent spoilage.
- In regions with high temperatures and heat wave conditions, provide clean, cool drinking water to animals, and cover the roofs of poultry sheds with grass to reduce the adverse effects of heat.
- 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:**64.5115.5mm; **Very Heavy Rain:**115.6204.4mm; **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

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°C to 6.4°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°C Warm Night: When minimum temperature departure 4.5°C to 6.4°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°C to -6.4°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°C to -6.4°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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