



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 17th June 2026
Time of Issue: 1410 hours IST

Subject: (i) Southwest monsoon is likely to advance into some more parts of Telangana, Odisha, Jharkhand & Bihar, and some parts of Chhattisgarh around 23rd June, 2026.
(ii) Isolated heavy rainfall likely over northeast India, Sub-Himalayan West Bengal & Sikkim and Bihar during the week.
(iii) Heat wave conditions very likely in isolated pockets over Madhya Pradesh till 21st June, Vidarbha till 20th, Telangana till 19th June and over Chhattisgarh till 17th June, 2026.

Advance of Southwest Monsoon 2026 (Annexure I):

- ❖ **The Northern Limit of Monsoon** continues to pass through 18°N/60°E, 18°N/65°E, 18°N/70°E, Harnai, Solapur, Hyderabad, Bhadrachalam, Koraput, Phulbani, Ranchi, Jamui, Muzaffarpur and 28.3°N/83°E.
- ❖ **Conditions are favourable** for further advance of southwest monsoon into some more parts of Telangana, Odisha, Jharkhand & Bihar, and some parts of Chhattisgarh during next 4-5 days.

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

- ❖ **Heavy to Very heavy rainfall (12-20 cm)** has been recorded at isolated places over Sub-Himalayan West Bengal, Assam, Arunachal Pradesh and Kerala.
- ❖ **Heavy rainfall (7-11 cm)** has been recorded at isolated places over Gangetic West Bengal, East Rajasthan, West Madhya Pradesh, Odisha and Mizoram.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds with speed reaching 60-90 kmph** prevailed at isolated places over East Uttar Pradesh, Rajasthan, Odisha, Madhya Pradesh **with speed reaching 40-60 kmph** at isolated places over West Uttar Pradesh, Andaman & Nicobar Islands, Haryana, Vidarbha, Jharkhand, Chhattisgarh, Punjab.
- ❖ **Heatwave conditions** prevailed at isolated places over Odisha, Vidarbha.

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

- ❖ **Day/Maximum Temperatures (as on 16-06-2026):** Yesterday, Day/Maximum temperatures were in the range of 40-44°C over Coastal Andhra Pradesh & Yanam, East Madhya Pradesh, East Uttar Pradesh, Gujarat State, Jharkhand, Madhya Maharashtra, Odisha, Telangana, Vidarbha, West Rajasthan, West Uttar Pradesh and below 40°C over rest parts of the country. The highest maximum temperature of **44.0°C** was reported at **Prayagraj (Uttar Pradesh)**.
- ❖ **Day/Maximum Temperature Departures (as on 16-06-2026):** were **markedly above normal (> 5.1°C)** at many places over Madhya Maharashtra and North Interior Karnataka; at few places over Jharkhand, Marathwada, Vidarbha and Telangana; at isolated places over Odisha, Himachal Pradesh, West Madhya Pradesh, Chhattisgarh and Tamil Nadu, Puducherry & Karaikal. **appreciably above normal (3.1°C to 5.0°C)** at many places over Konkan & Goa, Coastal Karnataka and South Interior Karnataka; at few places over Arunachal Pradesh, Sub Himalayan West Bengal & Sikkim, East Uttar Pradesh, West Uttar Pradesh, East Madhya Pradesh, Kerala & Mahe and Lakshadweep; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Bihar, Saurashtra & Kutch and Coastal Andhra Pradesh & Yanam. above or near normal over rest parts of the country.
- ❖ **Night Temperatures/Minimum temperatures (as on 17-06-2026)** are **appreciably above normal (3.1°C to 5.0°C)** over Konkan & Goa, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam; **above normal (1.6°C to 3.0°C)** over East Uttar Pradesh, West Madhya Pradesh, Odisha, Gangetic West Bengal, Gujarat State, Madhya Maharashtra, Marathwada, Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Andaman & Nicobar Islands and below normal or near normal over rest parts of the country.

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

- ❖ The **seasonal trough** runs from Punjab to Bihar in lower tropospheric level.
- ❖ A **Western Disturbance** as an upper air cyclonic circulation lies over north Pakistan & neighbourhood in lower tropospheric level.
- ❖ An **induced upper air cyclonic circulation** lies over south Punjab & neighbourhood in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over Northwest Uttar Pradesh & neighbourhood between lower & middle tropospheric levels.
- ❖ A **trough** runs from East Uttar Pradesh to south Coastal Andhra Pradesh in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over East Vidarbha & adjoining South Chhattisgarh in middle tropospheric level.
- ❖ A **trough** runs from North Tamil Nadu to Lakshadweep in lower tropospheric level.
- ❖ A **fresh Western Disturbance likely to affect Northwest India from 18th June, 2026.**

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 17th-22nd June.
- ❖ **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 23rd June; Himachal Pradesh and Uttarakhand during 17th-23rd June.
- ❖ **Isolated to Scattered** rainfall likely over Punjab during 18th-22nd June; Haryana Chandigarh & Delhi during 17th-22nd June; West Uttar Pradesh during 17th-19th June and on 23rd June; East Uttar Pradesh during 17th-19th June and during 22nd-23rd June; East Rajasthan and West Rajasthan during 17th-23rd June.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 17th-22nd June; Himachal Pradesh during 18th-19th June; Uttarakhand during 18th-20th June, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Himachal Pradesh on 17th June.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Haryana Chandigarh & Delhi and Punjab during 18th-22nd June; East Rajasthan and West Rajasthan on 17th June and during 20th-23rd June.
- ❖ **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely over West Rajasthan on 18th June; East Rajasthan during 18th-19th June.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over West Rajasthan on 19th June.
- ❖ Isolated **Hailstorm** activity likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18th-19th June; Himachal Pradesh during 17th-19th June.
- ❖ **Duststorm** activity likely over West Rajasthan during 17th-19th June.

Central India:

- ❖ **Isolated to Scattered** rainfall likely over West Madhya Pradesh during 17th-19th June; East Madhya Pradesh during 17th-19th June and during 22nd-23rd June; Chhattisgarh and Vidarbha during 17th-23rd June.
- ❖ 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-19th June; Chhattisgarh and Vidarbha during 17th-21st June.

East India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands and Sub-Himalayan West Bengal & Sikkim during 17th-23rd June; Gangetic West Bengal during 20th-23rd June; Odisha during 19th-20th June.
- ❖ **Isolated to Scattered** rainfall likely over Gangetic West Bengal during 17th-19th June; Bihar and Jharkhand during 17th-23rd June; Odisha during 17th-18th June and during 21st-23rd June.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Andaman & Nicobar Islands during 17th-23rd June; Sub-Himalayan West Bengal & Sikkim during 17th-19th June; Gangetic West Bengal during 17th-21st June; Jharkhand during 17th-18th June and during 22nd-23rd June; Bihar on 17th June and during 20th-23rd June; Odisha during 19th-21st June.
- ❖ Isolated **heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 23rd June; Bihar during 17th-20th June; Odisha on 19th June with isolated **very heavy rainfall** also likely over Sub-Himalayan West Bengal & Sikkim during 17th-22nd June.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Jharkhand during 19th-21st June; Bihar during 18th-19th June; Odisha during 17th-18th June.

Northeast India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 17th-23rd June.

- ❖ Isolated **thunderstorm & lightning** likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 17th-23rd June.
- ❖ Isolated **heavy rainfall** likely over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura during 17th-23rd June with isolated **very heavy rainfall** also likely over Assam & Meghalaya during 17th-23rd June.

West India:

- ❖ **Isolated to Scattered** rainfall likely over Konkan & Goa, Madhya Maharashtra and Marathawada during 17th-23rd June; Gujarat Region during 17th-18th June; Saurashtra & Kutch on 17th June.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Konkan & Goa and Marathawada during 18th-19th June; Madhya Maharashtra during 17th-18th June.

South Peninsular India:

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

Forecast of maximum/day temperatures:

- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Central India till 19th June and no significant change thereafter.
- ❖ No significant change in maximum temperatures likely over East India till 18th June, gradual fall by 2-3°C during 19th -21st June and no significant change thereafter.
- ❖ Gradual rise in maximum temperatures by 2°C likely over Maharashtra till 19th June and gradual fall by 2-3°C thereafter.
- ❖ No significant change in maximum temperatures likely over the rest parts of country till 23rd June 2026.

Heat Wave, Hot & Humid weather conditions warning:

- ❖ **Heat wave** conditions very likely in isolated pockets over Bihar and Odisha during 17th-18th June; Chhattisgarh on 17th June; East Madhya Pradesh and West Madhya Pradesh during 17th-21st June; East Uttar Pradesh during 17th-22nd June; Madhya Maharashtra and Telangana during 17th-19th June; Marathawada during 18th-19th June; Vidarbha during 17th-20th June; West Uttar Pradesh during 19th-22nd June.
- ❖ **Hot and humid** weather conditions likely to prevail over Coastal Andhra Pradesh & Yanam, Gangetic West Bengal, Odisha and Rayalaseema during 17th-18th June; Konkan & Goa during 17th-19th June.

Fisherman Warning:

Fishermen are advised not to venture into the following areas during 17th June to 22nd June, 2026:

- ❖ **Bay of Bengal:** Over Gulf of Mannar adjoining Comorin area, south Sri Lanka coasts adjoining some parts of southwest Bay of Bengal during 17th to 22st June, along and off Odisha, Gangetic west Bengal adjoining northwest Bay of Bengal during 18th to 22nd June; south Myanmar coasts adjoining northeast & eastcentral Bay of Bengal and North Andaman Sea during 17th to 19th June.
- ❖ **Arabian Sea:** Along and off Somalia coast adjoining parts of southwest & westcentral Arabian Sea; during 17th to 22th June; along and off Oman coast adjoining few parts of northwest & westcentral Arabian Sea during 18th to 22nd June.

Weather conditions and forecast over Delhi/NCR during 17th June -20th June, 2026 (Annexure IV)

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):

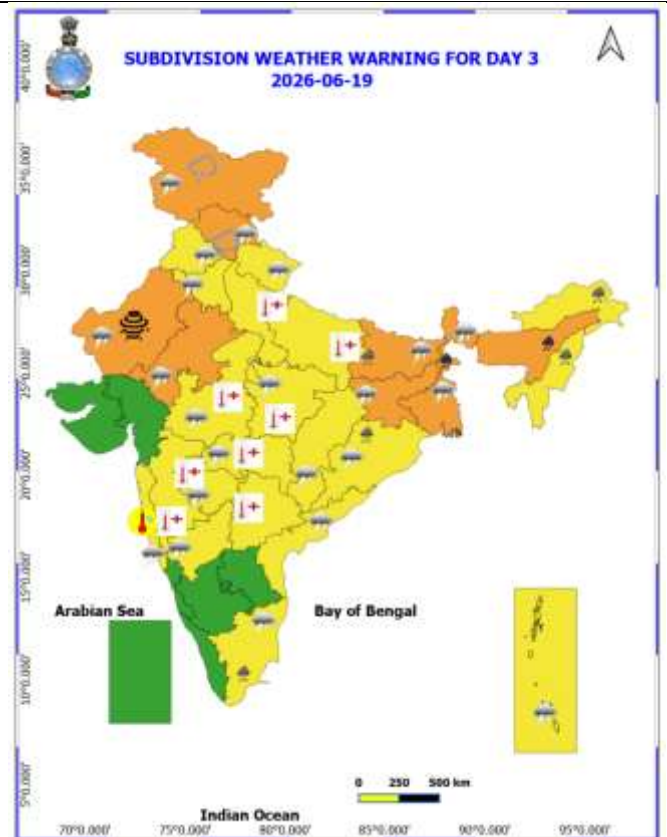
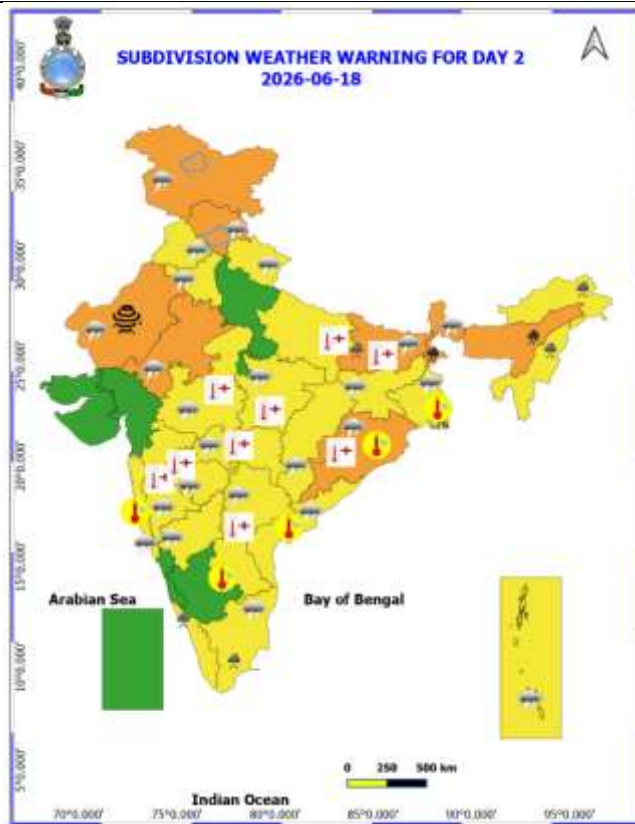
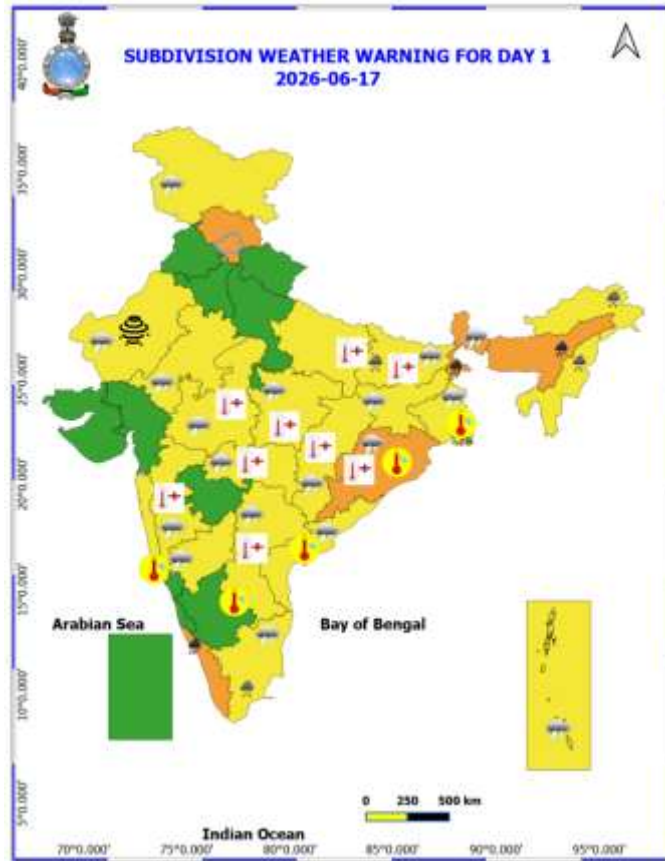
- ❖ **Assam:** Udaipur 17;
- ❖ **Arunachal Pradesh:** Deomali AWS 13;
- ❖ **Kerala:** Ponnani (Malappuram district) 16, Pattambi (Palakkad district) 13;
- ❖ **Sub-Himalayan West Bengal:** Kumargram T.E. – 13;
- ❖ **Mizoram:** Lengpui 9;
- ❖ **Gangetic West Bengal:** Panagarh 9;
- ❖ **East Rajasthan:** Malsisar 7;
- ❖ **West Madhya Pradesh:** Chachoda 7;
- ❖ **Odisha:** Angul 7.

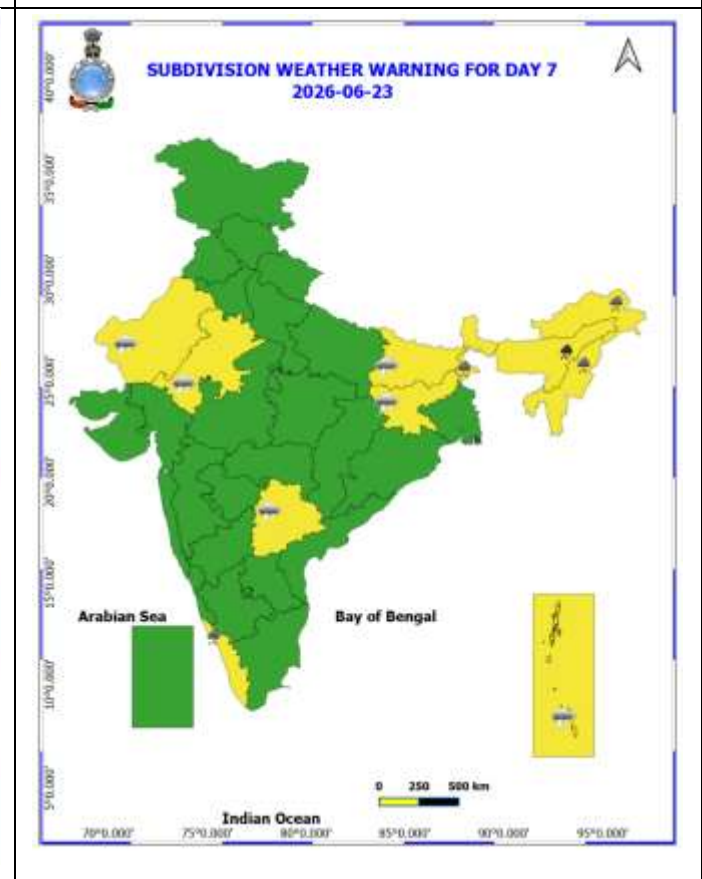
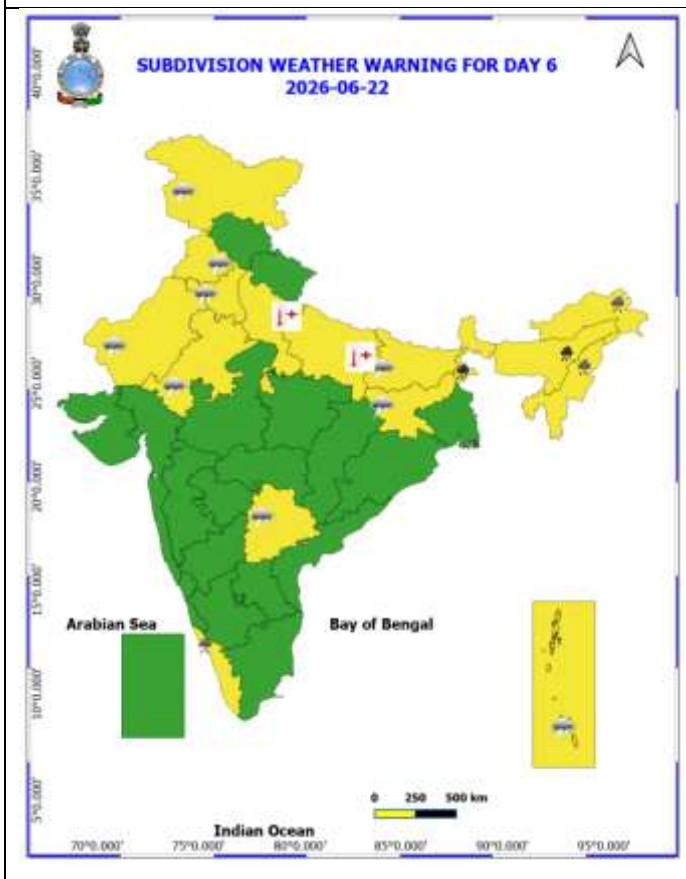
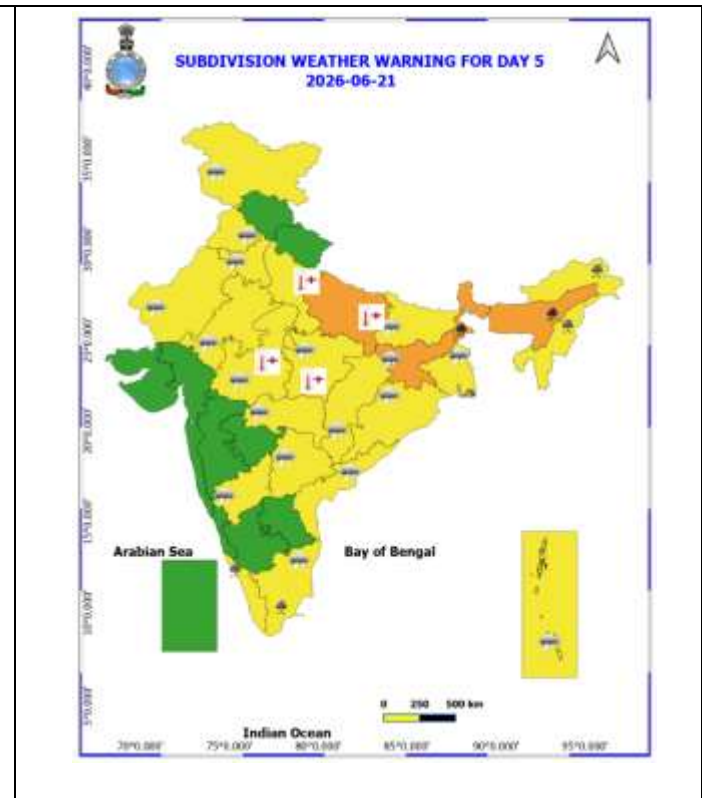
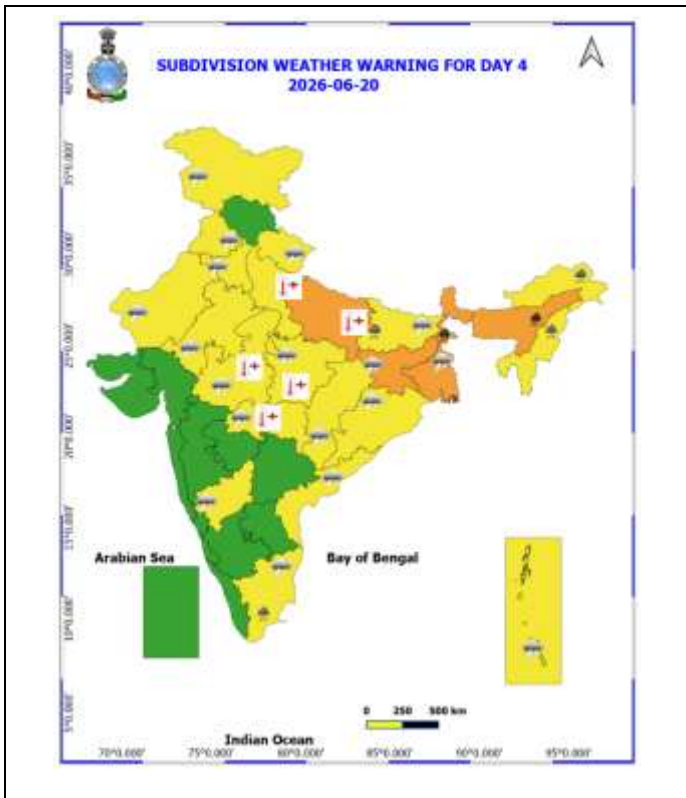
Gusty winds (in ≥ 40 kmph) (from 0830 hours IST of yesterday to 0830 hours IST of today):

- ❖ **East Uttar Pradesh:** Gorakhpur (AWS State) & Siddharthnagar (AWS State) - 80; Mahrajanj (AWS State) - 78; Kushinagar (AWS State) - 59; Gorakhpur (IAF) - 46;
- ❖ **East Rajasthan:** Sikar 76;
- ❖ **Odisha:** Rourkela - 74
- ❖ **West Madhya Pradesh:** Gwalior - 70; Ashoknagar - 52; Bhopal - 48; Sehore - 46; Betul - 44; Sheopur - 44;
- ❖ **East Madhya Pradesh:** Jabalpur - 65; Satna - 43;
- ❖ **West Rajasthan:** Barmer – 60;
- ❖ **West Uttar Pradesh:** Gb Nagar (AWS) - 54; Bulandshahar(AWS) & Hindon (AWS) - 41;
- ❖ **Andaman & Nicobar Islands:** Sri Vijayapuram – 51;
- ❖ **Haryana:** Sirsa - 48; Hisar – 41;
- ❖ **Vidarbha:** Wardha - 48;
- ❖ **Jharkhand:** Simdega – 43;
- ❖ **Chhattisgarh:** Bilaspur - 43; Mungeli - 43; Janjgir Champa - 41; Bemetara - 41;
- ❖ **Punjab:** Bathinda 41.

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

- 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 June to 20th June 2026

Past Weather:

There has been fall in the maximum temperatures by 4-6°C and rise in the minimum temperatures by 1-2°C during past 24 hours over Delhi. The maximum temperatures were in the range of 33-35°C and the minimum temperatures are in the range 22-24°C, respectively during past 24 hours over Delhi. The minimum temperatures are Markedly below normal (-5.1°C or less) at a few places and appreciably below normal (-3.1°C to -5.0°C) at many places over Delhi. The maximum temperatures were markedly below normal (-5.0°C or less) at most places and appreciably below normal (-3.1°C to -5.0°C) at remaining places over Delhi. Generally cloudy sky with surface wind speeds up to 22 kmph gusting to 47 kmph from southwest direction prevailed and rain/thunderstorm occurred at most places over Delhi during past 24 hours. Partly cloudy sky. surface wind speed upto 20 kmph gusting 47 kmph likely to prevailed from southwest direction over the region in the forenoon today.

Weather Forecast:

17.06.2026: Partly cloudy sky. Possibility of very light to light rain with thunderstorm/lightning/strong surface winds speed 30-40 kmph gusting 50 kmph towards afternoon/evening. The maximum temperatures over Delhi are likely to be in the range of 36°C to 38°C. 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 surface wind speed reaching upto 24 kmph during the afternoon hours. The wind speed will decrease becoming upto 18 kmph from the southwest direction during evening and night.

18.06.2026: Partly cloudy sky. Possibility of very light to light rain with thunderstorm/lightning towards evening/night. The maximum and minimum temperatures over Delhi are likely to be in the range of 37°C to 39°C and 25°C to 27°C, respectively. The minimum temperatures will be near normal (-1.5°C to 1.5°C) at many places with below normal (-1.6 to -3.0) at isolated places, and the maximum temperatures will near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the west direction with surface wind speed upto 24 kmph during the morning hours. The wind speed will gradually decrease upto 18 kmph from the west direction during the afternoon. The wind speed will increase upto 24 kmph from the west direction during evening and night.

19.06.2026: Partly cloudy sky. Possibility of thunderstorm/lightning towards forenoon/afternoon. The maximum and minimum temperatures over Delhi are likely to be in the range of 38°C to 40°C and 27°C to 29°C, respectively. The minimum temperatures 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 west direction with surface wind speed upto 18 kmph during the morning hours. The surface wind speed will be upto 22 kmph from the west direction during the afternoon. The wind speed will increase upto 24 kmph from the west direction during evening and night.

20.06.2026: Partly cloudy sky. A spell of very light/light rain with thunderstorm/lightning/strong surface winds 40-50 kmph gusting 60 kmph towards afternoon/evening. 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 above normal (1.6°C to 3.0°C) at isolated places with near normal (-1.5°C to 1.5°C) at many 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 speed reaching upto 23 kmph during the morning hours. The surface wind speed will be upto 20 kmph from the west direction during the afternoon. The surface wind speed will be upto 23 kmph from the west direction during evening and night.

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

Thunderstorms accompanied with lightning and gusty winds (40–50 kmph reaching up to 60 kmph) with dust-raising surface winds are likely to occur.

- **Expected Impacts:** Breaking of tree branches and uprooting of large trees, falling of dead tree limbs, Damage to standing crops, Minor to major damage to power and communication lines due to falling branches, Partial damage to vulnerable structures due to strong winds, Loose objects may get blown away
- **Advisory for Public Safety:** Keep a close watch on weather updates and worsening conditions, stay indoors and avoid unnecessary travel, Close windows and doors securely, take shelter in safe places and avoid open areas, do not take shelter under trees, do not lie on concrete floors or lean against concrete

walls during lightning activity, unplug electrical and electronic appliances, immediately move out of water bodies, stay away from objects that conduct electricity

Citizens are advised to remain alert and follow safety precautions to avoid any loss of life or property.

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

- ❖ **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely over West Rajasthan on 18th June; East Rajasthan during 18th-19th June.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over West Rajasthan on 19th June.
- ❖ Isolated **Hailstorm** activity likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18th-19th June; Himachal Pradesh during 17th-19th June; over Jharkhand during 19th-21st June; Bihar during 18th-19th June; Odisha during 17th-18th June.

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.
- 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/very heavy rainfall over

- ❖ Isolated **very heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 17th-22nd June; Assam & Meghalaya during 17th-23rd June; Kerala & Mahe on 17th June.

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.

Impact expected and action suggested due to Heat wave conditions:

- ❖ **Heat wave** conditions very likely in isolated pockets over Bihar and Odisha during 17th-18th June; Chhattisgarh on 17th June; East Madhya Pradesh and West Madhya Pradesh during 17th-21st June; East Uttar Pradesh during 17th-22nd June; Madhya Maharashtra and Telangana during 17th-19th June; Marathwada during 18th-19th June; Vidarbha during 17th-20th June; West Uttar Pradesh during 19th-22nd June.

Alert Areas

- High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure– keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

Agromet advisories for likely impact of Hailstorms

- In **Jammu & Kashmir** and **Himachal Pradesh**, use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage. Ensure effective field drainage to prevent waterlogging. Undertake picking of matured fruits at the earliest. Keep the harvested produce in safe places.

Agromet advisories for likely impact of Heavy Rainfall

- In **Arunachal Pradesh**, ensure proper drainage in vegetables, maize, rice nursery and other crop fields to prevent waterlogging. Harvest mature vegetables and fruits to avoid crop losses.
- In **Assam**, ensure proper drainage arrangements for quick removal of excess water from rice nurseries, jute, ginger, vegetables, banana, citrus and papaya. Avoid nursery sowing of *Sali* rice during heavy rainfall. Cover the rice nursery beds with thin polythene sheet. Provide mechanical support to the sugarcane crop to prevent lodging.
- In **Meghalaya**, ensure proper drainage channels in maize, ginger, cowpea, vegetable fields and banana plantations. Protect young seedlings from direct exposure to heavy rainfall. Use propping (bamboo or wooden poles) to support heavily laden plants.
- In **Sub Himalayan West Bengal**, harvest green gram pods and cover the grains by tarpaulins to protect it from rain or store it in dry place. Keep the harvested produce of rice and other vegetables in safe and dry place. Provide adequate drainage in jute, ginger, tomato and dalley khorsani fields and nurseries of *khari* rice and vegetables.
- In **Keralam**, drain out excess water from 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 **Tamil Nadu**, maintain proper drainage in rice, cumbu, groundnut, sugarcane, banana and vegetables. Keep the harvested produce at safe places.

Agromet advisories for likely impact of High temperatures / Heat Waves

- In **Odisha, Bihar, Uttar Pradesh, Madhya Pradesh, Vidarbha, North Madhya Maharashtra, Marathwada** and **Telangana**, apply light irrigation as per requirement in vegetable crops and fruit orchards. Carry out mulching with crop residue, straw or polythene to conserve soil moisture. Use temporary shade nets to protect the fruit plants from high temperatures.

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

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