



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 15<sup>th</sup> June 2026

Time of Issue: 1330 hours IST

- Subject: (i) The Southwest Monsoon has further advanced into remaining parts of Andhra Pradesh, West Bengal, some more parts of Telangana, Odisha, Jharkhand & Bihar, today the 15th June, 2026.**  
**(ii) Isolated heavy to very heavy rainfall likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya during next 6-7 days.**  
**(iii) Heat wave conditions very likely in isolated pockets over Telangana and Vidarbha during next 2-3 days.**

**Advance of Southwest Monsoon 2026 (Annexure I):**

- ❖ The **Southwest Monsoon** has further advanced into remaining parts of Andhra Pradesh, West Bengal & westcentral Bay of Bengal, some more parts of Telangana, Odisha, Jharkhand & Bihar, today the 15th June, 2026.
- ❖ **The Northern Limit of Monsoon** passes 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 as on 15th June, 2026.
- ❖ **Conditions are favourable** for further advance of southwest monsoon into some more parts of central Arabian Sea, Maharashtra, remaining parts of Karnataka, 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 15<sup>th</sup> June, 2026:**

- ❖ **Heavy to Very heavy rainfall (12-20 cm)** has been recorded at isolated places over Assam.
- ❖ **Heavy rainfall (7-11 cm)** has been recorded at isolated places over Coastal Karnataka, Odisha, Jharkhand, Bihar, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds with speed reaching 60-100 kmph** prevailed at isolated places over East Rajasthan, Telangana, Marathwada, Odisha, West Rajasthan, West Uttar Pradesh, Saurashtra & Kutch, West Madhya Pradesh, Chhattisgarh, Madhya Maharashtra; **with speed reaching 40-60 kmph** at isolated places over East Madhya Pradesh, Jharkhand, Andaman & Nicobar Islands, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, East Uttar Pradesh, Rayalaseema, Coastal Andhra Pradesh & Yanam.
- ❖ **Duststorm activity** realised at isolated places over East Rajasthan.
- ❖ **Warm night condition** prevailed at isolated places over Konkan & Goa.

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

- ❖ **Day/Maximum Temperatures (as on 14-05-2026):** Yesterday, Day/Maximum temperatures were in the range of 36–40°C at many places over Central adjoining East and parts of northwest India, parts of Gujarat, interior Maharashtra and Telangana. They were below 36°C over the remaining parts of the country. **The highest maximum temperature of 42.8°C was reported at PHALODIOBS (RAJASTHAN).**
- ❖ **Day/Maximum Temperature Departures (as on 14-05-2026):** Yesterday Maximum temperatures markedly above normal (> 5.1°C) at isolated places over Odisha, East Rajasthan and Chhattisgarh. appreciably above normal (3.1°C to 5.0°C) at many places over Konkan & Goa; at few places over Madhya Maharashtra, Marathwada and North Interior Karnataka; at isolated places over West Uttar Pradesh, Himachal Pradesh, West Madhya Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. above normal (1.6°C to 3.0°C) at many places over Lakshadweep; at few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Vidarbha, Coastal Karnataka and South Interior Karnataka; at isolated places over Gangetic West Bengal, East Uttar Pradesh and Gujarat Region. near normal (-1.5°C to 1.5°C) over remaining parts of the country.
- ❖ **Night Temperatures/Minimum temperatures (as on 15-06-2026)** are **appreciably above normal (3.1°C to 5.0°C)** over Konkan & Goa, East Madhya Pradesh; **above normal (1.6°C to 3.0°C)** over West Madhya Pradesh, Gujarat State, Sub-Himalayan West Bengal & Sikkim, Chhattisgarh, Odisha, Madhya Maharashtra, Marathawada, Vidarbha, Karnataka, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Kerala & Mahe, Puducherry & Karaikal and below normal or near normal over rest parts of the country.

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

- ❖ The **seasonal trough** at mean sea level now runs from Punjab to Bihar across Haryana and Uttar Pradesh.
- ❖ The **trough** runs from East Bihar to South Chhattisgarh in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over south Madhya Maharashtra & neighbourhood in lower and middle tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over south Punjab & neighbourhood in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over southeast Pakistan adjoining southwest Rajasthan in lower tropospheric levels.
- ❖ A **Western Disturbance** is seen as an upper air cyclonic circulation over north Pakistan adjoining Jammu & Kashmir in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over Ladakh & neighbourhood middle and upper tropospheric levels.
- ❖ A fresh **Western Disturbance** likely to affect Northwest India from 18<sup>th</sup> June, 2026.

### 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 15th-17th June; Himachal Pradesh and Uttarakhand during 15th-21st June.
- ❖ **Isolated to Scattered** rainfall likely over East Rajasthan, Haryana Chandigarh & Delhi, Punjab and West Rajasthan during 15th-21st June; West Uttar Pradesh during 15th-19th June; East Uttar Pradesh during 17th-18th June.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18th-21st June.
- ❖ **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 15th-16th June and during 18th-21st June; Himachal Pradesh during 18th-19th June; Uttarakhand on 15th June and on 19th June.
- ❖ **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Haryana Chandigarh & Delhi and Punjab on 16th June and during 18th-20th June; East Rajasthan during 19th-21st June.
- ❖ **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely over East Rajasthan, Haryana Chandigarh & Delhi and Punjab on 15th June; West Rajasthan during 15th-16th June.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over West Uttar Pradesh on 15th June; East Rajasthan during 17th-18th June.
- ❖ **Isolated Hailstorm** activity likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18th-19th June.
- ❖ **Duststorm** activity likely over West Rajasthan during 15th-16th June; East Rajasthan on 15th June.

#### Central India:

- ❖ **Isolated to Scattered** rainfall likely over Chhattisgarh, East Madhya Pradesh, Vidarbha and West Madhya Pradesh during 15th-21st 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 16th-19th June; Chhattisgarh and Vidarbha during 15th-19th June.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over East Madhya Pradesh and West Madhya Pradesh on 15th June.

#### East India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands and Sub-Himalayan West Bengal & Sikkim during 15th-21st June; Gangetic West Bengal during 20th-21st June; Odisha during 15th-16th June.
- ❖ **Isolated to Scattered** rainfall likely over Gangetic West Bengal during 15th-19th June; Bihar and Jharkhand during 15th-21st June; Odisha during 17th-21st June.
- ❖ **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Andaman & Nicobar Islands, Gangetic West Bengal and Sub-Himalayan West Bengal & Sikkim during 15th-21st June; Bihar and Jharkhand during 15th-19th June; Odisha on 16th June and on 19th June.
- ❖ **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 15th-16th June and on 21st June; Bihar on 16th June and on 19th June; Odisha on 15th June **with isolated very heavy rainfall** also likely over Sub-Himalayan West Bengal & Sikkim during 17th-20th June.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Bihar during 20th-21st June; Odisha on 15th June and during 17th-18th June

#### Northeast India:

- ❖ **Fairly Widespread to Widespread rainfall** likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 15th-21st June.
- ❖ **Isolated thunderstorm & lightning** likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 15th-19th June.

- ❖ **Isolated heavy rainfall** likely over Arunachal Pradesh during 15th-17th June; Assam & Meghalaya during 15th-16th June; Nagaland, Manipur, Mizoram & Tripura during 17th-20th June **with isolated very heavy rainfall** also likely over Arunachal Pradesh during 18th-21st June; Assam & Meghalaya during 17th-21st June.

#### West India:

- ❖ **Isolated to Scattered rainfall** likely over Gujarat Region, Konkan & Goa, Madhya Maharashtra and Marathawada during 15th-21st June; Saurashtra & Kutch during 18th-21st June.
- ❖ **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Konkan & Goa during 15th-17th June; Madhya Maharashtra and Marathawada during 15th-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 15th-21st June; Lakshadweep during 15th-17th June; Coastal Karnataka during 15th-16th June; South Interior Karnataka during 15th-18th June; Telangana during 15th-20th June.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe during 15th-21st June; Lakshadweep during 18th-21st June; Coastal Karnataka during 17th-21st June; South Interior Karnataka during 19th-21st June; Telangana on 21st June.
- ❖ **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over North Interior Karnataka, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Telangana during 15th-19th June, with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) likely over Coastal Karnataka during 15th-19th June.
- ❖ **Isolated heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal during 16th-18th June; Kerala & Mahe on 16th June.
- ❖ **Strong Surface Winds** likely over Coastal Andhra Pradesh & Yanam and Rayalaseema during 15th-19th June.

#### Forecast of maximum/day temperatures:

- ❖ Gradual rise in maximum temperatures likely over Northwest India by 2-4°C till 18<sup>th</sup> and thereafter no significant change during 19<sup>th</sup> – 21<sup>st</sup> June
- ❖ No significant change in maximum temperatures likely over the rest parts of country till 21<sup>st</sup> June 2026.

#### Heat Wave, Hot & Humid weather conditions warning:

- ❖ **Heat wave** conditions very likely in isolated pockets over Telangana during 15th-16th June; Vidarbha during 15th-17th June.
- ❖ **Hot and humid** weather conditions likely to prevail over Konkan & Goa, Madhya Maharashtra, Marathawada and Odisha during 15th-17th June.
- ❖ **Warm Night** conditions very likely to prevail in isolated pockets over Konkan & Goa during 15th-18th June.

#### Fisherman Warning:

Fishermen are advised not to venture into the following areas during 15<sup>th</sup> June to 20<sup>th</sup> June, 2026:

**Bay of Bengal:** Over Gulf of Mannar adjoining Comorin area, Sri Lanka coasts, over many parts of southwest Bay of Bengal during 15<sup>th</sup> to 20<sup>th</sup> June, south Myanmar coasts adjoining eastcentral Bay of Bengal on 15<sup>th</sup> June; North Andaman Sea adjoining south Andaman Sea during 15<sup>th</sup> to 18<sup>th</sup> June.

**Arabian Sea:** Along and off Somalia coast adjoining some parts of southwest & westcentral Arabian Sea; along and off Oman coast adjoining northwest Arabian Sea during 15<sup>th</sup> to 20<sup>th</sup> June & adjoining northeast Arabian sea during 16<sup>th</sup> to 20<sup>th</sup> June.

#### Weather conditions and forecast over Delhi/NCR during 14<sup>th</sup> June -17<sup>th</sup> June, 2026 (Annexure IV)

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>

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

- ❖ **Assam:**Kokrajhar (12)
- ❖ **Coastal Karnataka:** Kota 11,
- ❖ **Odisha:**Khurdha (9 )
- ❖ **Jharkhand:**Bau Kanke (9)
- ❖ **Bihar:**Katihar (9)
- ❖ **Tamil Nadu, Puducherry & Karaikal:** Kothavacherry (7)

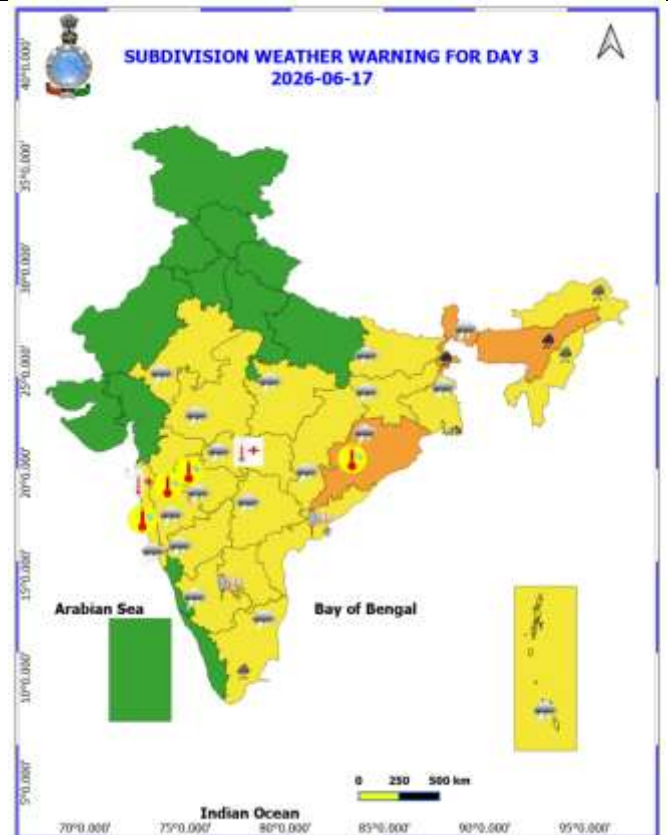
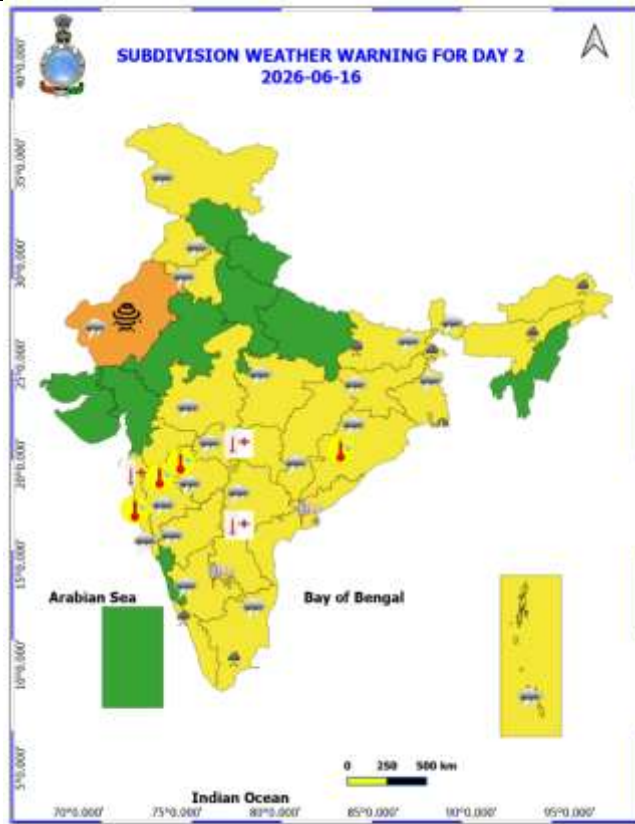
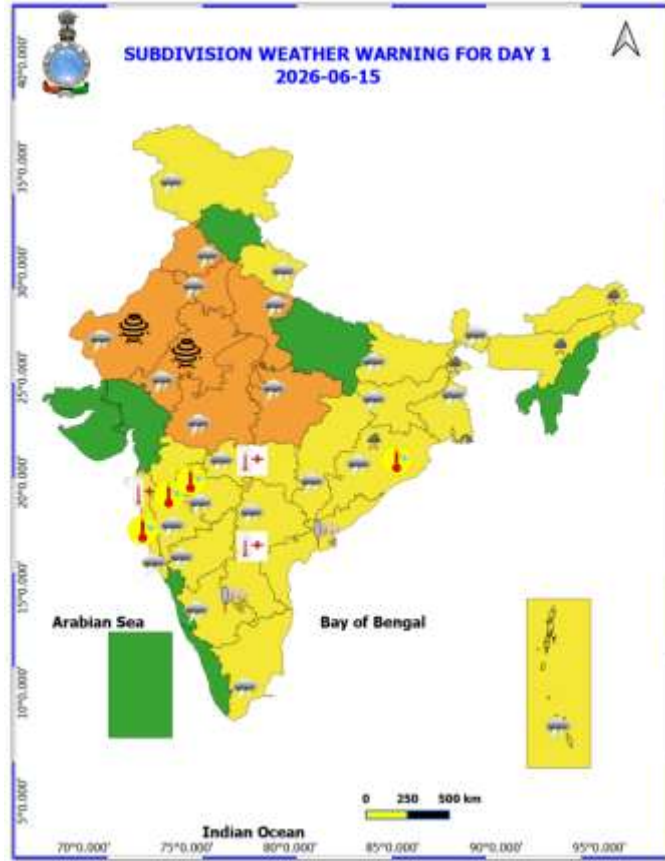
**Gusty winds (in >= 40 kmph) (from 0830 hours IST of yesterday to 0830 hours IST of today):**

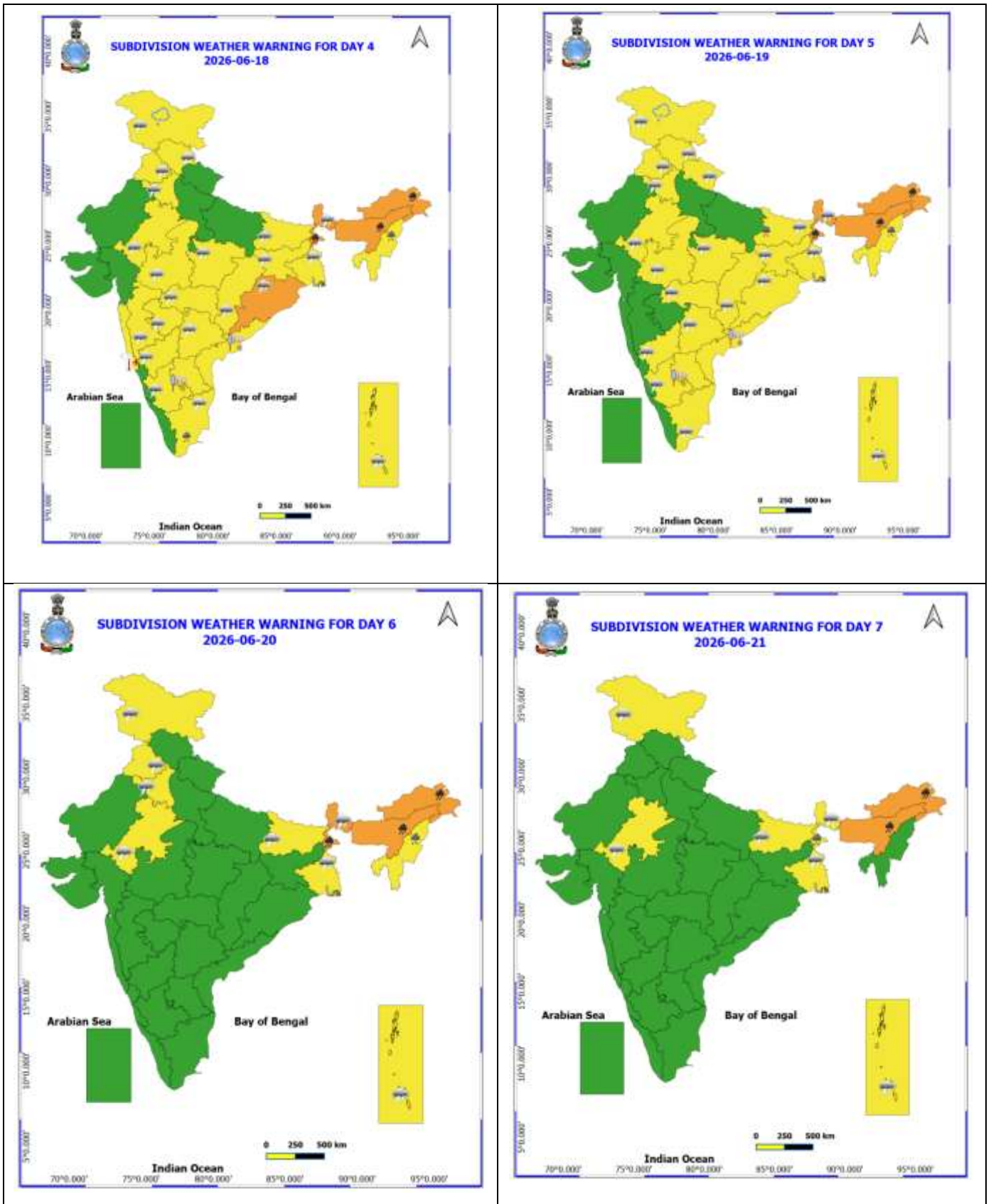
- ❖ **East Rajasthan:** Ajmer 96 Jaipur 80
- ❖ **Telangana:** Siddipet 83 , Vikarabad 50
- ❖ **Marathwada:** Pokharni Phata76 , Parbhani 52
- ❖ **Odisha:**Dhenkanal 68
- ❖ **West Rajasthan:** Bikaner 63, Nagaur 68
- ❖ **West Uttar Pradesh:** Jhansiaws65
- ❖ **Saurashtra & Kutch:** khavda 63
- ❖ **West Madhya Pradesh:** Sehore 61 ,Guna 59, Bhopal 57,Hosanagabad 48,Indore44
- ❖ **Chhattisgarh:** Korba61, Balrampur54, Surajpur43, Janjgirchampa41,
- ❖ **Madhya Maharashtra:** Dondaicha Dhule 61 , Baramati Pune 56 , Kalwan Nashik 54
- ❖ **East Madhya Pradesh:** Sagar 59 ,Jabalpur 50
- ❖ **Rayalaseema:** Tirupati 59
- ❖ **Jharkhand:** Netarhat 50
- ❖ **Andaman & Nicobar Islands:** Sri Vijayapuram 46
- ❖ **Gujarat Region:** Arnej 46
- ❖ **Tamil Nadu, Puducherry & Karaikal:** Ariyalur 43 , Veda sandur46 , Kovilpatti 43 ,
- ❖ **East Uttar Pradesh:** Lucknow State44
- ❖ **Coastal Andhra Pradesh & Yanam:** Maruteru 43, Lam\_Guntur 41



Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	15- Jun	16- Jun	17- Jun	18- Jun	19- Jun	20- Jun	21- Jun
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	FWS	FWS	FWS	WS	WS	WS	WS
3	ASSAM & MEHGHALAYA	FWS	FWS	WS	WS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	FWS	FWS	FWS	FWS	FWS	FWS	FWS
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	WS	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	SCT	ISOL	SCT	SCT	SCT	FWS	FWS
7	ODISHA	FWS	FWS	SCT	SCT	SCT	SCT	SCT
8	JHARKHAND	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
9	BIHAR	ISOL	ISOL	ISOL	ISOL	SCT	ISOL	SCT
10	EAST UTTAR PRADESH	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
12	UTTARAKHAND	SCT	SCT	SCT	SCT	SCT	SCT	SCT
13	HARYANA, CHANDIGARH & DELHI	SCT	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
14	PUNJAB	ISOL	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
15	HIMACHAL PRADESH	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
16	JAMMU AND KASHMIR AND LADAKH	SCT	SCT	SCT	FWS	FWS	FWS	FWS
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	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
21	GUJRAT REGION	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
23	KONKAN & GOA	ISOL	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHWADA	ISOL	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
26	VIDARBHA	ISOL	ISOL	SCT	SCT	SCT	ISOL	ISOL
27	CHHATTISGARH	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
28	COASTAL ANDHRA PRADESH	SCT	ISOL	ISOL	SCT	SCT	SCT	SCT
29	TELANGANA	ISOL	ISOL	SCT	SCT	SCT	SCT	WS
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	SCT	SCT	FWS	FWS	FWS	WS	WS
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	ISOL	SCT	SCT	SCT	FWS	FWS	FWS
35	KERALA AND MAHE	FWS	FWS	FWS	FWS	WS	WS	WS
36	LAKSHADWEEP	SCT	SCT	SCT	FWS	FWS	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 15<sup>th</sup> June to 18<sup>th</sup> June 2026****Past Weather:**

There has been rise in maximum temperatures by 2 - 3°C and rise in minimum temperatures by 1 - 2°C over Delhi during past 24 hours over Delhi. The maximum temperatures were in the range of 38-39°C and the minimum temperatures are in the range 25-28°C respectively during past 24 hours over Delhi. The minimum temperatures are below normal (-1.6°C to -3.0°C) at a few places, and normal (-1.5°C to 1.5°C) at many places over Delhi. The maximum temperatures were appreciably below normal (-3.1°C to -5.0°C) at isolated places, below normal (-1.6°C to -3.0°C) at isolated places and normal (-1.5°C to 1.5°C) at remaining places over Delhi. Partly cloudy sky with surface wind speeds up to 20 kmph from west direction prevailed over Delhi during past 24 hours. Partly cloudy sky with surface wind speeds up to 15 kmph likely to prevailed from northwest direction over the region in the forenoon today.

**Weather Forecast:**

**15.06.2026:** Partly cloudy sky becoming generally cloudy sky towards afternoon. A spell of very light/light rain with thunderstorm/lightning/dust storm and strong winds 50-60 gusting to 70 kmph towards afternoon/evening. The maximum temperatures over Delhi are likely to be in the range of 35°C to 37°C. The maximum temperatures will be below normal (-1.6°C to -3.0°C) at most places over Delhi. The predominant surface wind is likely to be from the southwest direction with surface wind speed reaching up to 25 kmph during the afternoon hours. The wind speed will decrease becoming up to 15 kmph from the southwest direction during evening and night.

**16.06.2026** Partly cloudy sky. A spell of very light/light rain with thunderstorm/lightning/dust storm and strong winds 40-50 gusting to 60 kmph towards afternoon/evening. The maximum and minimum temperatures over Delhi are likely to be in the range of 38°C to 40°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 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 southwest direction with surface wind speed reaching up to 15 kmph during the morning hours. The wind speed will increase becoming up to 20 kmph from southwest direction during the afternoon. The wind speed will decrease becoming up to 15 kmph from the southwest direction during evening and night.

**17.06.2026:** Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 39°C to 41°C and 27°C to 29°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and maximum temperatures will be above normal (1.6°C to 3.0°C) at most places over Delhi. The predominant surface wind is likely to be from the southwest direction with wind reaching up to 15 kmph during the morning hours. The surface wind speed will increase becoming up to 20 kmph from southwest direction during the afternoon. The wind speed will decrease becoming up to 18 kmph from the southwest direction during evening and night.

**18.06.2026:** Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 40°C to 42°C and 28°C to 30°C, respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places, and maximum temperatures will be above normal (1.6°C to 3.0°C) at most places over Delhi. The predominant surface wind is likely to be from the northwest direction with wind reaching up to 20 kmph during the morning hours. The surface wind speed will increase becoming up to 22 kmph from northwest direction during the afternoon. The surface wind speed will decrease becoming up to 20 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 East Rajasthan, Haryana Chandigarh & Delhi and Punjab on 15th June; West Rajasthan during 15th-16th June.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over West Uttar Pradesh on 15th June; East Rajasthan during 17th-18th June; East Madhya Pradesh and West Madhya Pradesh on 15th June; Bihar during 20th-21st June; Odisha on 15th June and during 17th-18th June.
- ❖ **Isolated Hailstorm** activity likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18th-19th 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 heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 15th-16th June and on 21st June; Bihar on 16th June and on 19th June; Odisha on 15th June , Arunachal Pradesh during 15th-17th June; Assam & Meghalaya during 15th-16th June; Nagaland, Manipur, Mizoram & Tripura during 17th-20th June , Tamil Nadu, Puducherry & Karaikal during 16th-18th June; Kerala & Mahe on 16th June **with isolated very heavy rainfall** also likely over Sub-Himalayan West Bengal & Sikkim during 17th-20th June, Arunachal Pradesh during 18th-21st June; Assam & Meghalaya during 17th-21st 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 kutchra 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 Telangana during 15th-16th June; Vidarbha during 15th-17th 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 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 **Tripura**, undertake harvesting of mature Boro rice and store the harvested produce in a safe and dry place.
- In **Sub Himalayan West Bengal**, keep the harvested produce of rice and other vegetables in safe and dry place. Provide adequate drainage in ginger, tomato and dalley khorsani fields and nurseries of *kharif* rice and vegetables.
- In **Keralam**, make provision to 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 **Vidarbha** and **Telangana**, apply light irrigation as per requirement in vegetable crops and fruit orchards.

#### **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

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

\* 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)