



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

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Time of Issue: 1415 hours IST

Subject: (i) Southwest monsoon has advanced into some parts of southeast Arabian Sea, southwest and southeast Bay of Bengal, many parts of Andaman Sea, entire Nicobar Islands and some parts of Andaman Islands including Sri Vijaya Puram today, the 16th May 2026.

(ii) The southwest monsoon is likely to set in over Kerala on 26th May with a model error of ± 4 days.

(iii) Heat wave to severe heat wave conditions likely to prevail over some parts of the plains of northwest India and central India during many days of the week.

(iv) Isolated heavy to very heavy rainfall also likely over northeast India during the week and over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and South Interior Karnataka during next 3-4 days.

Advance of Southwest Monsoon 2026 (Annexure I):

- ❖ Southwest monsoon has advanced into some parts of southeast Arabian Sea, southwest and southeast Bay of Bengal, many parts of Andaman Sea, entire Nicobar Islands and some parts of Andaman Islands including Sri Vijaya Puram today, the 16th May 2026. The Northern Limit of Monsoon passes through 5°N/75°E, 6°N/79°E, 8°N/85°E, 10.5°N/90°E, 13.5°N/95°E, and 15.5°N/98°E.
- ❖ During past 2 days (a) there has been widespread rainfall activity over Nicobar Islands and adjoining areas of Andaman Islands (b) the strength of westerlies over the region has increased and is around 35 kmph gusting to 45 kmph (c) the strength of westerlies over the region extends upto 4.5 km above mean sea level. (d) the Outgoing Longwave Radiation (OLR) over the region is less than 200 W/m² indicating persistent convective cloud mass over the region. Thus, all the criteria are satisfied for advance of southwest monsoon over the region.
- ❖ Conditions are favourable for further advance of southwest monsoon into some more parts of southeast Arabian Sea, southwest and southeast Bay of Bengal, remaining parts of Andaman Islands and Andaman Sea, and some parts of eastcentral Bay of Bengal during next 3-4 days.
- ❖ The southwest monsoon is likely to set in over Kerala on 26th May with a model error of ± 4 days.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 16th May, 2026:

- ❖ **Heavy to very heavy rainfall (11-20 cm)** has been recorded at isolated places over Sub-Himalayan West Bengal, Assam & Meghalaya.
- ❖ **Heavy rainfall (7-11 cm)** has been recorded at isolated places over Chhattisgarh, Sikkim, Puducherry.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds with speed reaching 50-76 kmph** prevailed at isolated places over Haryana, Nagaland, Manipur, Mizoram & Tripura, East Madhya Pradesh, Jharkhand, Odisha, Gangetic West Bengal and **with speed reaching 30-50 kmph** prevailed at isolated places over Jammu-Kashmir, Vidarbha, Marathawada, Konkan, Meghalaya, Sub-Himalayan West Bengal, West Madhya Pradesh, Madhya Maharashtra, Andaman & Nicobar Islands.
- ❖ **Hailstorm** reported at isolated places over Jammu-Kashmir, Uttarakhand and East Madhya Pradesh.
- ❖ **Heat wave conditions** prevailed in isolated pockets over West Madhya Pradesh, Vidarbha and Saurashtra & Kutch.

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

- ❖ **Maximum Temperatures (as on 15-05-2026):** Maximum temperatures were in the range of 40-45°C at many parts of Central India & adjoining north Peninsular India, Gujrat State, Rajasthan & adjoining Haryana; 32-40°C over rest parts of country except parts of Jammu-Kashmir, Himachal Pradesh, Northeast India, South Kerala and Tamil Nadu, Saurashtra & Kutch, Interior Maharashtra, West Rajasthan. **Yesterday, the highest maximum temperature of 45.6°C was reported at AMRAVATI (MAHARASHTRA).**
- ❖ **Maximum Temperature Departures (as on 15-05-2026):** Maximum temperatures were above normal (1.6°C to 3.0°C) over Jammu-Kashmir, West Madhya Pradesh, Bihar, Gujarat State, Odisha, Vidarbha, Konkan, Coastal Andhra Pradesh & Yanam and near normal/below normal over rest parts of the country.

- ❖ **Minimum temperatures** were above normal (1.6°C to 3.0°C) over southwest Rajasthan, Bihar, Assam, south Madhya Pradesh, Odisha, Maharashtra, Interior Karnataka, Telangana, Rayalaseema and below normal or near normal over rest parts of the country.

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

- ❖ Yesterday's well-marked low-pressure area over southwest & adjoining westcentral Bay of Bengal lay as a **low pressure area** over the same region at 0830 hrs IST of today, the 16th May, 2026. The associated cyclonic circulation extends upto 4.5 km above mean sea level tilting southwestwards with height.
- ❖ The **Western Disturbance** is seen as a cyclonic circulation over Jammu & adjoining north Pakistan in lower tropospheric levels with a trough aloft in middle tropospheric westerlies runs roughly along Long. 70°E to the north of Lat. 33°N.
- ❖ An upper air **cyclonic circulation** lies over south Rajasthan & neighbourhood in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over East Rajasthan & neighbourhood in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over central Uttar Pradesh & neighbourhood in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over northwest Uttar Pradesh & adjoining Uttarakhand in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over northeast Vidarbha & neighbourhood and a **trough** runs from this upper air cyclonic circulation to Coastal Karnataka across Telangana and Interior Karnataka in lower tropospheric levels.
- ❖ An east-west **trough** runs from north Bihar to south Assam across North Gangetic West Bengal in lower tropospheric levels.

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

Northeast India:

- ❖ **Scattered to Fairly widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Nagaland, Manipur, Mizoram & Tripura on 16th & 17th May.
- ❖ **Isolated heavy rainfall** likely over Arunachal Pradesh on 16th, 17th & during 20th-22nd; Assam & Meghalaya during 16th-18th & on 21st, 22nd; Nagaland, Manipur, Mizoram & Tripura on 16th, 21st & 22nd May.

South Peninsular India:

- ❖ **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Kerala & Mahe during 16th-20th; Lakshadweep on 16th & 17th May.
- ❖ **Isolated to scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds (40-50 kmph)** likely over Rayalaseema during 16th-20th; Coastal Andhra Pradesh & Yanam during 18th-20th; South Interior Karnataka on 16th May.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Rayalaseema on 19th & 20th May.
- ❖ **Isolated Heavy rainfall** also likely over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka during 16th-19th; Kerala & Mahe during 16th-18th; Lakshadweep on 16th & 17th May.
- ❖ **Hailstorm activity likely** at isolated places over South Interior Karnataka on 16th May.

East India:

- ❖ **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Andaman & Nicobar Islands during 16th-22nd; Sub-Himalayan West Bengal & Sikkim during 16th-18th & on 20th May.
- ❖ **Isolated to scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Gangetic West Bengal during 16th-18th; Bihar during 16th-22nd; Jharkhand & Odisha during 16th-20th May.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Andaman & Nicobar Islands during 16th-18th; Bihar on 16th; Jharkhand on 16th, 19th & 20th May.
- ❖ **Isolated heavy rainfall** likely over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim during 16th-18th May **with isolated very heavy rainfall over Andaman & Nicobar Islands on 16th & 17th; Sub-Himalayan West Bengal & Sikkim on 17th May.**

Northwest India:

- ❖ **Fairly widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Jammu-Kashmir on 16th, 19th & 20th May. **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Uttarakhand on 16th May.

Central India:

- ❖ **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over East Madhya Pradesh on 16th; Chhattisgarh during 16th-18th May.

West India:

- ❖ **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Madhya Maharashtra on 16th & 17th and Marathwada during 16th – 18th May.

Forecast of maximum/day temperatures:

- ❖ Gradual rise in maximum temperatures by 3-4°C likely over Western Himalayan region India till 19th and no significant change during 20th-22nd May.
- ❖ Gradual rise in maximum temperatures by 3-5°C likely over plains of Northwest India till 20th and no significant change on 21st & 22nd May.
- ❖ No significant change in maximum temperatures likely over Maharashtra and Gujarat State till 18th and gradual fall by 2-3°C during 19th -22nd May.
- ❖ No significant change in maximum temperatures likely over rest parts of the country till 22nd May 2026.

Heat Wave, Hot & Humid weather conditions warning:

- ❖ **Heat wave conditions** in isolated pockets likely to prevail over West Rajasthan during 16th -22nd with **severe heat wave conditions** in isolated pockets on 21st & 22nd May.
- ❖ **Heat wave conditions** in isolated/ some pockets likely to prevail over Uttar Pradesh during 16th -22nd with **severe heat wave conditions** in isolated/ some pockets during 19th -22nd May.
- ❖ **Heat wave conditions** in isolated pockets likely to prevail over West Madhya Pradesh during 16th-20th; East Madhya Pradesh & Vidarbha during 16th-22nd; East Rajasthan during 17th-22nd; Punjab, Haryana Chandigarh & Delhi during 18th-22nd; Chhattisgarh during 20th-22nd May.
- ❖ **Hot and humid conditions** very likely to prevail in isolated pockets over Konkan & Goa on 16th May.

Fisherman Warning:

Fishermen are advised not to venture into the following areas:

Bay of Bengal: Over Gulf of Mannar, Comorin area, many parts of south Bay of Bengal, eastcentral Bay of Bengal during 16th to 19th May; over Gulf of Mannar, adjoining Comorin area, most parts of south, central Bay of Bengal, off Tamil Nadu & Andhra Pradesh coasts on 19th & 20th May; over Andaman Sea during 16th to 21st May.

Arabian Sea: Along and off Keralam, Karnataka coasts, over Lakshadweep, adjoining Maldives areas during 16th to 19th May; along and off Somalia coast, adjoining southwest Arabian Sea during 16th to 21st May.

Weather conditions and forecast over Delhi/NCR during 16th -19th May, 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):

- ❖ **Sub-Himalayan West Bengal & Sikkim:** Oodlabari Tea Estate (dist Jalpaiguri) 18, Jhallong (dist Kalimpong) 14, Sevoke (dist Darjeeling) 12, Mangan (dist Mangan) 9, Nagarkata (dist Jalpaiguri) 8, Chalouni Tea Estate (dist Jalpaiguri) 8, Leesh River Tea Garden (dist Jalpaiguri) 8, Singhik (dist Mangan) 8, Siliguri Pto (dist Darjeeling) 7, Gangtok (dist Gangtok) 7, Dharala Valley Tea Est (dist Jalpaiguri) 7, Good Hope Tea Estate (dist Jalpaiguri) 7, Kumlai T.e. (dist Jalpaiguri) 7, Domohani (dist Jalpaiguri) 7, Tra Nagrakata (dist Jalpaiguri) 7, Maynaguri College (dist Jalpaiguri) 7, Mogulkata Tea Estate (dist Jalpaiguri) 7, Jalpaiguri (dist Jalpaiguri) 7;
- ❖ **Assam & Meghalaya:** Karimganj (dist Sribhumi) 17, B P Ghat (dist Sribhumi) 15, Manikpur Arg (dist Bongaigaon) 11, Silchar (dist Cachar) 7, Williamnagar (dist East Garo Hills) 7;
- ❖ **Tamil Nadu, Puducherry & Karaikal:** Puducherry AWS (dist Puducherry) 8, Puducherry (dist Puducherry) 7, Nctpl Marg ECR AWS (dist Chengalpattu) 5, Oothu (dist Tirunelveli) 4;
- ❖ **Chhattisgarh:** Patan (dist Durg) 7

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

- ❖ **Gangetic West Bengal:** Kalyani 76; Burdwan 67; Nandakumar, Kharagpur 63 each; Alipore 55; Bijpur 44; Dum Dum 43;
- ❖ **Odisha:** Nawapada 59;
- ❖ **Jharkhand:** Palamu 59;
- ❖ **East Madhya Pradesh:** Jabalpur 56, Anuppur 37, Shahdol 37, Sagar 35;
- ❖ **Nagaland, Manipur, Mizoram & Tripura:** Kanchanpur (North) 56, Panisagar (North) 50, Kailashahar (Unokoti) 43;
- ❖ **Haryana:** Uchani (Karnal) 50;
- ❖ **Andaman & Nicobar Islands:** Sri Vijayapuram 49;
- ❖ **Madhya Maharashtra:** Baramati (Pune) 46, Kalwan (Nashik) 43, Vilholi (Nashik) 41;
- ❖ **West Madhya Pradesh:** Sehore 44, Guna 39, Barwani 37, Agar 37, Bhopal 35, Ashoknagar 35, Shivpuri 35, Betul 33, Dhar 33, Khandwa 31;
- ❖ **Sub-Himalayan West Bengal:** North Dinajpur 41;
- ❖ **Meghalaya:** Tura 41;
- ❖ **Jammu-Kashmir:** Gulmarg 41;
- ❖ **Konkan:** Karjat (Raigad) 35, Devgad (Sindhudurg) 43;
- ❖ **Marathwada:** Ambejogai (Beed) 35, Dharashiv 33;
- ❖ **Vidarbha:** Yavatmal 35

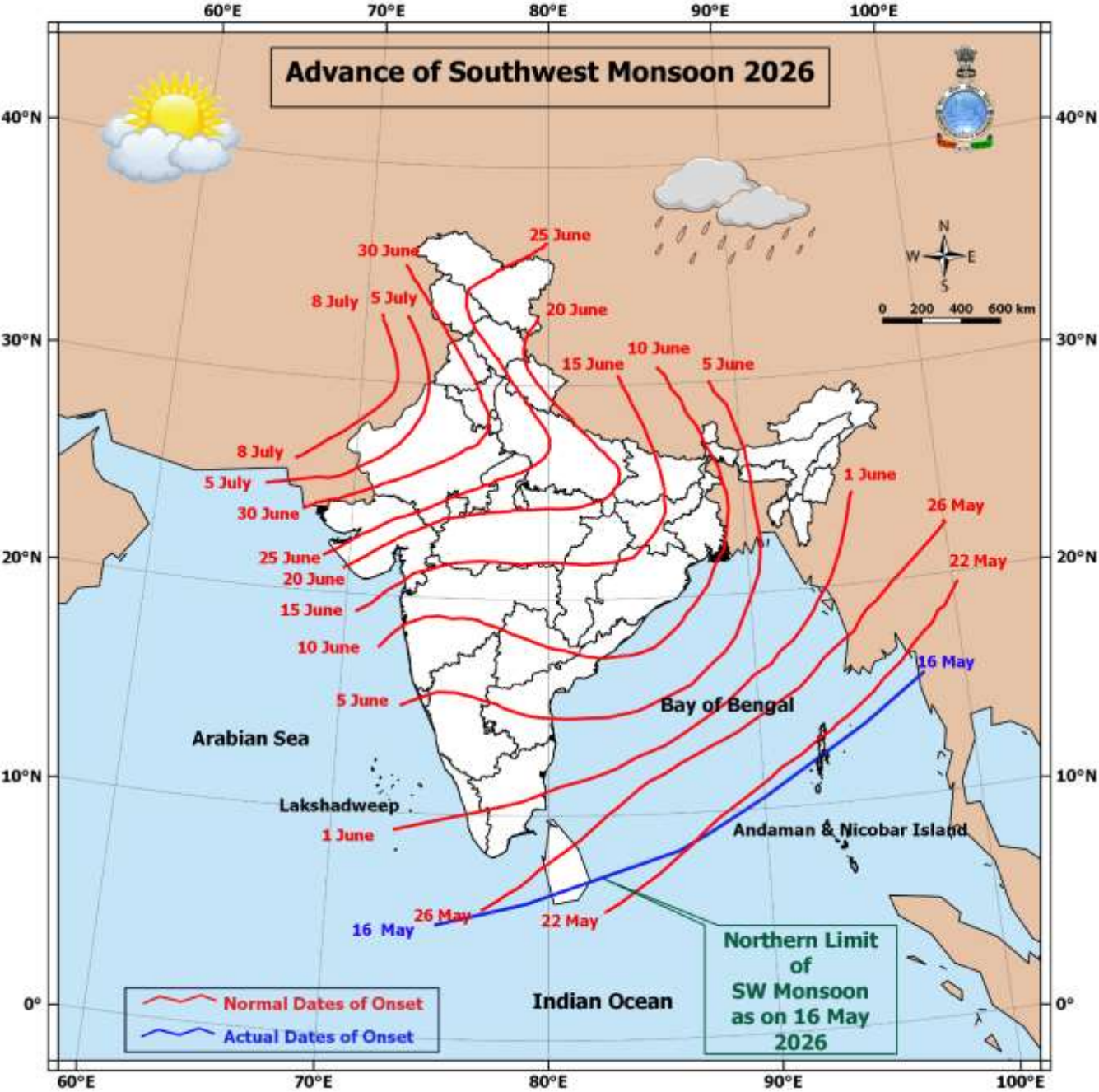
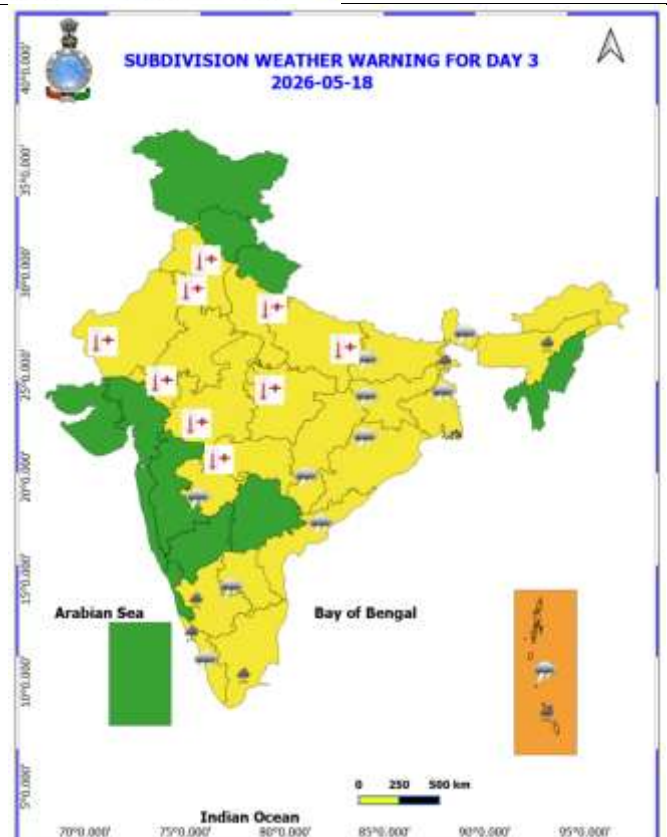
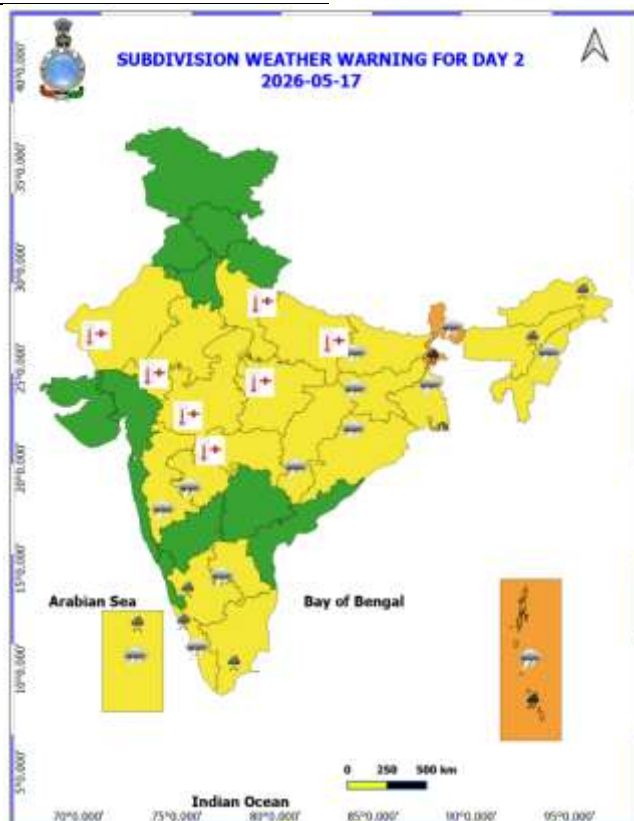
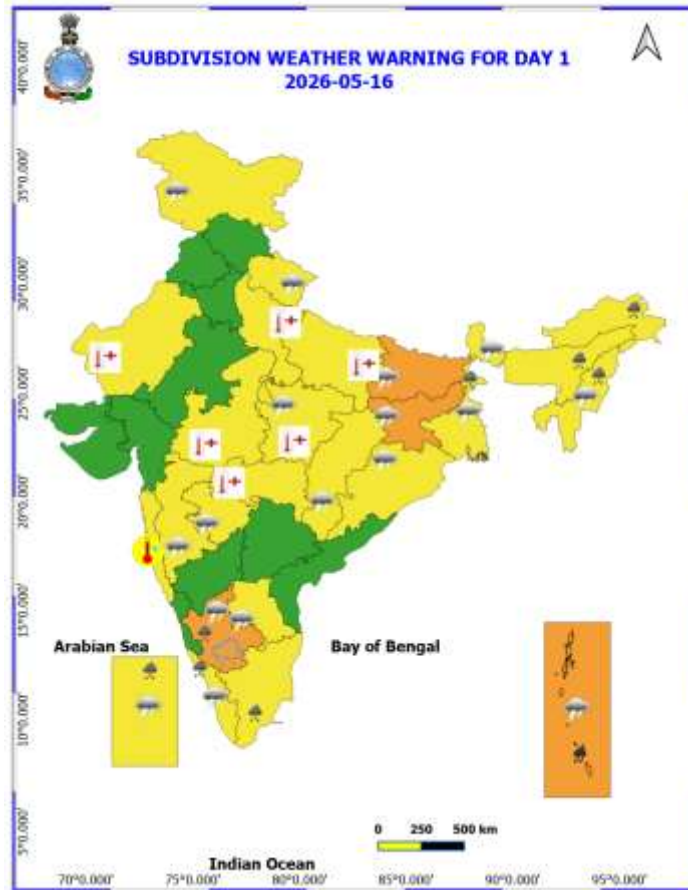
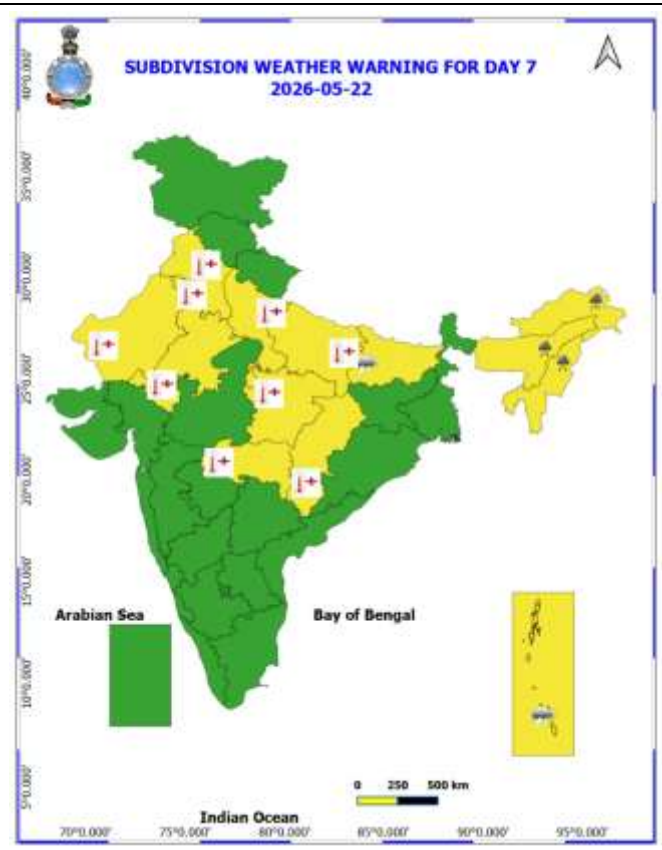
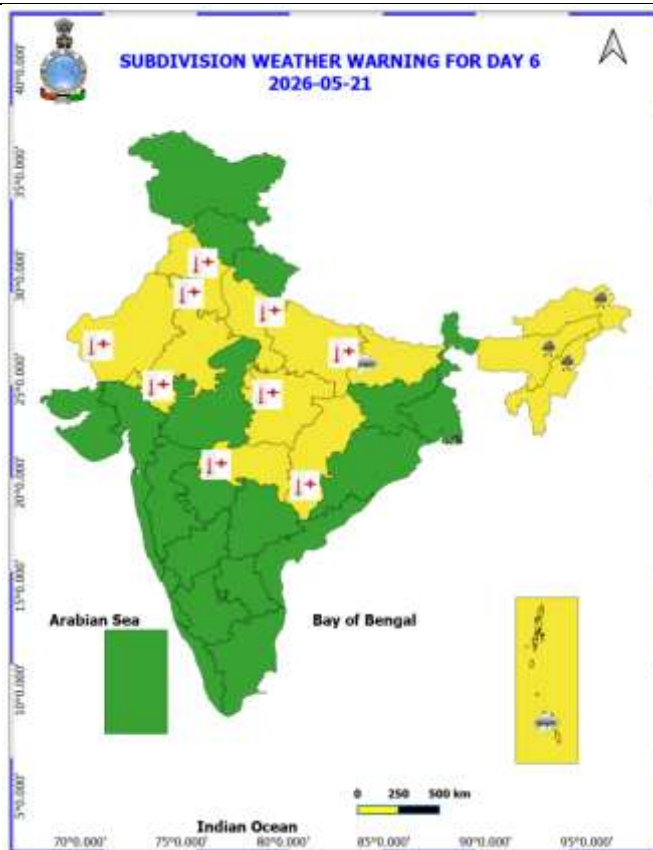
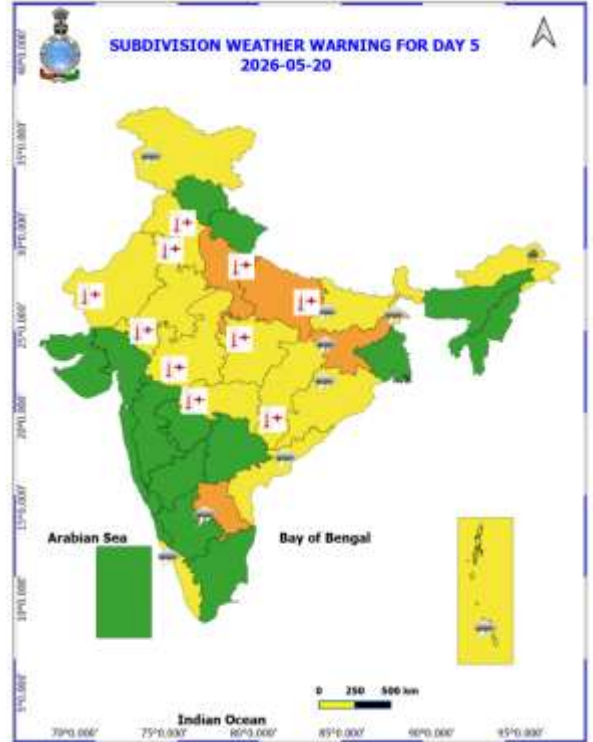
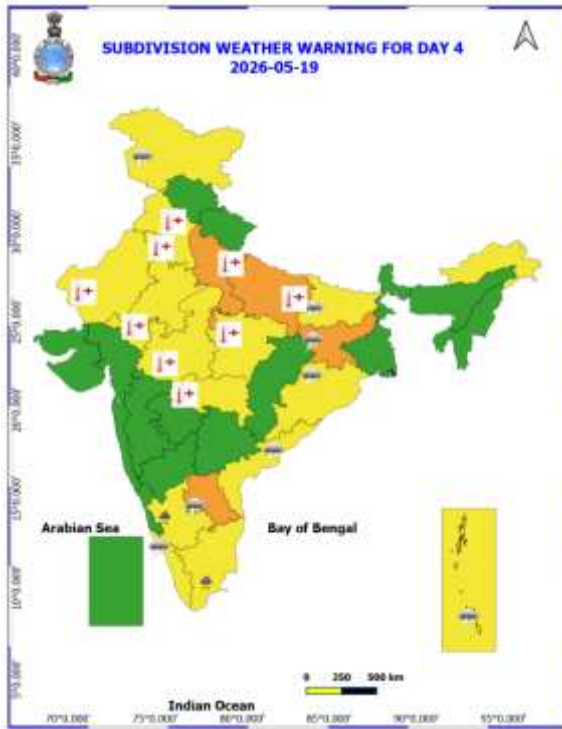


Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	16- May	17- May	18- May	19- May	20- May	21- May	22- May
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	FWS	FWS	SCT	SCT	FWS	FWS	FWS
3	ASSAM & MEHGHALAYA	WS	FWS	FWS	SCT	FWS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

- As the lead period increases forecast accuracy decrease.





- Action may be taken based on ORANGE AND REDCOLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

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

Weather forecast over Delhi/NCR during 16th May to 19th May 2026**Past Weather:**

There has been a rise of about 1-2°C in maximum temperatures and a fall of 1-2°C in minimum temperatures over Delhi in the past 24 hours. The maximum temperatures were 40-41°C, and the minimum temperatures were 24-25°C, over the past 24 hours in Delhi. The minimum temperatures are below normal (-1.6°C to -3.0°C) at most places and normal (-1.5°C to 1.5°C) at the remaining parts over Delhi. The maximum temperatures are normal (-1.5°C to 1.5°C) at most places over Delhi. Mainly clear sky with north-westerly winds at 15-20 kmph gusting to 34 kmph prevailed over Delhi during the past 24 hours. Mainly clear sky with surface wind speeds up to 10 kmph likely to prevail from the northwest direction over the region in the forenoon today.

Weather Forecast:

16.05.2026: Mainly clear sky. The maximum temperatures over Delhi are likely to be in the range of 40°C to 42°C. Maximum temperatures will be above normal (1.6°C to 3.0°C) at most places in Delhi. The predominant surface wind is likely to be from the northwest direction with surface wind speed reaching up to 20 kmph during the afternoon hours. The wind speed will decrease and become less than 10 kmph from the southeast direction during the evening and night.

17.05.2026: Partly cloudy sky. Possibility of thundery development towards afternoon/evening and sustained strong surface winds speed 20-30 kmph occasionally gusting to 40 kmph during the day. The maximum and minimum temperatures over Delhi are likely to be in the range of 41°C to 43°C and 24°C to 26°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 a northwest direction with surface wind speed reaching up to 15 kmph during the morning hours. The wind speed will increase slightly and become less than 25 kmph from the west direction during the afternoon hours. The wind speed will be less than 25 kmph from the west direction during the evening and night.

18.05.2026: Mainly clear sky. Sustained strong surface wind speeds 20-30 kmph occasionally gusting to 40 kmph during the day. The maximum and minimum temperatures over Delhi are likely to be in the range of 42°C to 44°C and 25°C to 27°C respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperature will be above normal (1.6°C to 3.0°C) over Delhi. The predominant surface wind is likely to be from the west direction with surface wind speed reaching up to 25 kmph during the morning hours. The same winds continue to prevail during the day and night.

19.05.2026: Mainly clear sky. Sustained strong surface wind speeds 20-30 kmph occasionally gusting to 40 kmph during the day. The maximum and minimum temperatures over Delhi are likely to be in the range of 41°C to 43°C and 26°C to 28°C respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places, and the maximum temperature will be above normal (1.6°C to 3.0°C) over Delhi. The predominant surface wind is likely to be from the west direction with surface wind speed reaching up to 25 kmph during the morning hours. The same winds continue to prevail during the day and night.

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

- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Andaman & Nicobar Islands during 16th-18th; Bihar on 16th; Jharkhand on 16th, 19th & 20th; Rayalaseema on 19th & 20th May.
- ❖ **Hailstorm activity likely** at isolated places over South Interior Karnataka on 16th May.

Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

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

- ❖ **Isolated heavy rainfall** likely over Arunachal Pradesh on 16th, 17th & during 20th-22nd; Assam & Meghalaya during 16th-18th & on 21st, 22nd; Nagaland, Manipur, Mizoram & Tripura on 16th, 21st & 22nd; Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim during 16th-18th; Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka during 16th-19th; Kerala & Mahe during 16th-18th; Lakshadweep on 16th & 17th May with isolated **very heavy rainfall** over Andaman & Nicobar Islands on 16th & 17th; Sub-Himalayan West Bengal & Sikkim on 17th May.

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/ severe heat wave conditions:

- ❖ **Heat wave conditions** in isolated pockets likely to prevail over West Rajasthan during 16th -22nd with **severe heat wave conditions** in isolated pockets on 21st & 22nd May.
- ❖ **Heat wave conditions** in isolated/ some pockets likely to prevail over Uttar Pradesh during 16th -22nd with **severe heat wave conditions** in isolated/ some pockets during 19th -22nd May.
- ❖ **Heat wave conditions** in isolated pockets likely to prevail over West Madhya Pradesh during 16th-20th; East Madhya Pradesh & Vidarbha during 16th-22nd; East Rajasthan during 17th-22nd; Punjab, Haryana Chandigarh & Delhi during 18th-22nd; Chhattisgarh during 20th-22nd May.

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 **South Interior Karnataka**, 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 the fields of rice, maize, other standing crops, vegetables, and orchards. Keep the harvested cabbage, pea, mustard, late-maturing paddy & potatoes produce to safe places.
- In **Assam**, drain out excess rainwater to avoid water stagnation in the crop fields. Prioritise immediate harvesting of the mature crops and move the produce to a dry, covered warehouse during clear weather conditions. Provide mechanical support for tall crops (like banana or sugarcane) and young saplings by using bamboo sticks or poles.
- In **Meghalaya**, drain out excess rainwater from maize, ginger, vegetables and orchards. Provide staking/bamboo support to tomato plants to prevent lodging.
- In **Sub-Himalayan West Bengal**, maintain proper drainage channels in the ginger, tomato, maize, bitter gourd and Dalle Khorsani fields. Provide staking to tomato, Dalley Khorsani seedlings. Harvest mature crops at the earliest and store them safely in dry places. Protect nurseries and young seedlings against heavy rainfall with temporary covers.
- In **Andaman & Nicobar**, ensure proper drainage in coconut gardens and avoid water stagnation around basins.
- In **Kerala**, provide adequate drainage for banana, coconut, and other vegetables. Provide support to banana plants.
- In **Tamil Nadu**, maintain proper drainage to prevent water stagnation in black gram, green gram, sugarcane, and vegetable plantations.
- In **South Interior Karnataka**, drain out excess water from paddy and other standing crop fields.
- **Lakshadweep**, postpone irrigation, intercultural operations and application of plant protection measures & fertilizers to the standing crops. Provide adequate drainage in standing-crop fields to prevent waterlogging.

Agromet advisories for likely impact of High temperatures/ Heat Waves

- In **Rajasthan**, apply need-based irrigation to green gram and summer cucurbit crops like bottle gourd, pumpkin, smooth gourd, ridge gourd, cucumber, bitter gourd, kachra, cucumber, and summer ladyfinger, spinach, and young fruit plants like mango, amla, pomegranate, wood apple, and plum.
- In **Madhya Pradesh**, apply light irrigation to maize, *moong*, *urd*, groundnut, and vegetable crops as required.

- In **Maharashtra, Vidarbha**, irrigate sugarcane, summer groundnut, vegetables, and orchards as required; use organic or straw mulch in vegetables and orchards; cover banana bunches with leaves; and use shade nets in newly planted banana plantations.
- In **Uttar Pradesh**, provide light, frequent irrigation to standing Zaid crops, vegetables, and horticultural crops.

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 hailstorms/ heavy rainfall and provide them with balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain excess water, thereby preventing fish from escaping in the event of overflow.
- In regions with high temperatures and heat waves, provide clean, hygienic, and ample drinking water for animals, and cover the roofs of poultry sheds with grass to reduce the adverse effects.
- Coastal states (especially Tamil Nadu and Kerala), fishermen are advised not to venture into sea.

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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