



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 19th May 2026
Time of Issue: 1400 hours IST

Subject: (i) Heat wave to severe heat wave conditions likely to continue to prevail over northwest and central India during the week.

(ii) Isolated heavy rainfall likely over Andaman & Nicobar Islands during the week; and over northeast & adjoining east India during 21st to 25th May, 2026.

Advance of Southwest Monsoon 2026 (Annexure I):

- ❖ The Northern Limit of Monsoon continues to pass through 6°N/70°E, 6°N/75°E, 7°N/80°E, 9°N/85°E, 12°N/90°E, 14°N/93°E, 16°N/96°E and 17.5°N/98°E.
- ❖ Conditions are favourable for further advance of southwest monsoon into some more parts of southeast Arabian Sea, Comorin Area, southwest and southeast Bay of Bengal, remaining parts of Andaman Sea, and some more 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 19th May, 2026:

- ❖ **Heavy to very heavy rainfall (11-20 cm)** has been recorded at isolated places over Tamil Nadu.
- ❖ **Heavy rainfall (7-11 cm)** has been recorded at isolated places over Arunachal Pradesh, Odisha and Lakshadweep.
- ❖ **Hailstorm** reported at isolated places over Odisha.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds with speed reaching 50-85 kmph** over Bihar, Jharkhand, Gangetic West Bengal, Tamil Nadu and **with speed reaching 40-50 kmph** prevailed at isolated places over Madhya Maharashtra, East Madhya Pradesh, West Uttar Pradesh, Punjab, Assam, Haryana and Andaman & Nicobar Islands.
- ❖ **Heat wave to severe heat wave conditions** prevailed in isolated pockets over East Uttar Pradesh; **heat wave conditions** in some pockets of Madhya Pradesh and Vidarbha; in isolated pockets over Jammu Division, West Uttar Pradesh and Rajasthan.
- ❖ **Warm Night conditions** prevailed at isolated places over Vidarbha.

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

- ❖ **Day Temperatures/Maximum Temperatures (as on 18-05-2026):** Yesterday, Maximum temperatures were in the range of 38-47°C over Northwest, West, Central, adjoining East & north Peninsular India. **The highest maximum temperature of 47.6°C was reported at BANDA (UTTAR PRADESH).**
- ❖ **Day Temperatures/Maximum Temperature Departures (as on 18-05-2026)** were **markedly above normal (5.1°C or more)** over Jammu-Kashmir; **appreciably above normal (3.1°C to 5.0°C)** over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh; **above normal (1.6°C to 3.0°C)** over Uttarakhand, Rajasthan, Madhya Pradesh, Gujarat State, Maharashtra, Bihar, Jharkhand, north Chhattisgarh, Gangetic West Bengal, Odisha and **below normal or near normal** over rest parts of the country.
- ❖ **Night Temperatures/Minimum temperatures (as on 19-05-2026)** were **markedly above normal (5.1°C or more)** at isolated places over East Rajasthan, East Uttar Pradesh, Haryana-Chandigarh-Delhi, Jammu & Kashmir, Vidarbha; **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab; at a few places over Bihar, East Madhya Pradesh, Himachal Pradesh, Madhya Maharashtra, Marathwada; at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, West Rajasthan, West Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at a few places over Coastal Andhra Pradesh & Yanam, Jharkhand, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura, Telangana, Uttarakhand, West Madhya Pradesh; at isolated places over Assam & Meghalaya, Chhattisgarh, Gujarat Region, Kerala & Mahe, North Interior Karnataka, Rayalaseema, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal and below normal or near normal over rest parts of the country.

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

- ❖ The **Western Disturbance** as a cyclonic circulation over north Pakistan and adjoining Jammu in lower tropospheric levels with a trough aloft in middle tropospheric westerlies runs roughly along Long. 72°E to the north of Lat. 31°N.
- ❖ An upper air **cyclonic circulation** lies over East Uttar Pradesh & neighbourhood and a **trough** runs from this cyclonic circulation to Manipur in lower tropospheric levels.
- ❖ Another **trough** runs from the East Uttar Pradesh to Lakshadweep area in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over central Assam in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over south Coastal Andhra Pradesh & neighbourhood in lower & middle tropospheric levels.
- ❖ A **trough** runs from southeast Arabian Sea & adjoining south Lakshadweep area to the above cyclonic circulation over south Coastal Andhra Pradesh in lower & middle tropospheric levels.

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

Northeast India:

- ❖ **Isolated to Scattered** light to moderate rainfall likely over Northeast India till 21st May and likely to increase to **Fairly widespread to widespread** light to moderate rainfall during 22nd-25th May.
- ❖ **Isolated heavy rainfall** likely over Assam & Meghalaya during 21st-25th; Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura during 22nd-25th May with **isolated very heavy rainfall** over Arunachal Pradesh on 23rd & 24th; Assam & Meghalaya during 23rd-25th 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 and Lakshadweep during 19th-25th and **isolated to Scattered** over remaining sub-divisions during the same period.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Interior Karnataka on 19th; Coastal Andhra Pradesh & Yanam and Rayalaseema during 19th-23rd May.
- ❖ **Isolated Heavy rainfall** also likely over Tamil Nadu, Kerala & Mahe during 19th-21st; Lakshadweep on 19th & 20th; South Interior Karnataka on 19th 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 19th-25th; Sub-Himalayan West Bengal & Sikkim during 19th-23rd May.
- ❖ **Isolated to scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Gangetic West Bengal and Odisha during 19th-23rd; Bihar during 19th-25th; Jharkhand during 20th-25th May.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Gangetic West Bengal on 19th & 20th; Bihar on 19th, 20th & 23rd; Jharkhand on 20th & 23rd; Odisha during 19th-21st May.
- ❖ **Isolated heavy rainfall** likely over Andaman & Nicobar Islands during 19th-25th; Sub-Himalayan West Bengal & Sikkim during 21st-25th May with **isolated very heavy rainfall over Sub-Himalayan West Bengal & Sikkim on 22nd & 23rd May.**

Northwest India:

- ❖ **Scattered to Fairly widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Jammu-Kashmir during 19th-22nd; **Isolated** light to moderate rainfall over Uttarakhand on 19th, 22nd & 23rd and Himachal Pradesh on 21st & 22nd May.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Jammu-Kashmir on 19th & 21st May.
- ❖ **Strong surface winds (speed reaching 20-30 kmph gusting to 40 kmph)** likely over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh during 19th – 25th May.

Central India:

- ❖ **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Vidarbha and Chhattisgarh on 19th May.

West India:

- ❖ **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Konkan & Goa and Madhya Maharashtra on 19th & 20th May.

Forecast of maximum/day temperatures:

- ❖ No significant change in maximum temperatures likely over Maharashtra and Gujarat State till 19th and gradual fall by 2-3°C during 20th -25th May.
- ❖ No significant change in maximum temperatures likely over rest parts of the country till 25th May 2026.

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

- ❖ **Heat wave to severe heat wave conditions** very likely in isolated/some pockets over West Uttar Pradesh & Madhya Pradesh during 19th-25th May; East Uttar Pradesh & Vidarbha during 19th-21st May; **Heat wave conditions** in isolated pockets over East Uttar Pradesh & Vidarbha during 22nd-25th May.
- ❖ **Heat wave conditions** very likely in isolated/some pockets over Punjab, Haryana, Chandigarh & Delhi during 19th-25th with **severe heat wave conditions** in some pockets on 19th & 20th May.
- ❖ **Heat wave conditions** very likely in isolated pockets over Coastal Andhra Pradesh & Yanam during 19th-25th with **severe heat wave conditions** in isolated pockets on 21st & 22nd May.
- ❖ **Heat wave conditions** very likely in isolated pockets over Jammu-Kashmir, Himachal Pradesh, Marathwada on 19th & 20th; Uttarakhand during 19th-21st; Rajasthan during 19th-25th; Chhattisgarh & Telangana during 19th-23rd; southwest Bihar on 19th; Odisha during 20th-23rd May.
- ❖ **Warm Night conditions** very likely to prevail in isolated pockets over Uttar Pradesh, Madhya Pradesh & Vidarbha on 19th & 20th May.
- ❖ **Hot and humid weather conditions** likely to prevail over Odisha during 19th-23rd May.

Fisherman Warning:

Fishermen are advised not to venture into the following areas:

Bay of Bengal: Over many parts of southeast Bay of Bengal, over Gulf of Mannar, adjoining Comorin area, some parts of southwest Bay of Bengal, off Sri Lanka coast on 19th May; over most parts of southeast Bay of Bengal, adjoining parts of southwest Bay of Bengal, over Gulf of Mannar, adjoining Comorin area, some parts of southwest Bay of Bengal, off Sri Lanka coast on 20th May; over most parts of southeast Bay of Bengal, over Gulf of Mannar, some parts of southwest Bay of Bengal and adjoining parts of southeast Bay of Bengal, off Sri Lanka coast on 21st May; over most parts of southeast Bay of Bengal, over Gulf of Mannar & adjoining Comorin area, many parts of southwest Bay of Bengal and adjoining parts of southeast Bay of Bengal, off Sri Lanka coast on 22nd May; over many parts of southeast Bay of Bengal and adjoining southwest Bay of Bengal on 23rd May; over Andaman Sea during 19th to 23rd May.

Arabian Sea: Along and off Keralam, Karnataka coasts, over Lakshadweep area, adjoining Maldives, over Comorin areas on 19th & 20th May; along and of Somalia coast, over many parts of southwest Arabian Sea during 19th to 24th May; over Maldives and Comorin areas on 21st May.

Weather conditions and forecast over Delhi/NCR during 19th -22nd May, 2026 (Annexure IV)

For more details, kindly refer National Weather Bulletin:

https://mausam.imd.gov.in/responsive/all_india_forcast_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):

- ❖ **Tamil Nadu, Puducherry & Karaikal:** Neyyoor AWS, (dist. Kanyakumari) 16, Nalumukku (dist Tirunelveli) 10; Colachel (dist Kanyakumari), Oothu (dist Tirunelveli), Mambzhathuraiyaru (dist Kanyakumari), Anaikedanku (dist Kanyakumari), Kakkachi (dist Tirunelveli) 9 Each; Eraniel (dist Kanyakumari) 8; Manjolai (dist Tirunelveli) 7; Thuckalay (dist Kanyakumari), Suralacode (dist Kanyakumari), Perunchani Dam (dist Kanyakumari), Puthan Dam (dist Kanyakumari), Adayamadai (dist Kanyakumari) 6 Each;
- ❖ **Lakshadweep:** Kadmat 9;
- ❖ **Arunachal Pradesh:** Longding 9;
- ❖ **Odisha:** Similiguda (dist Koraput) 7

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

- ❖ **Bihar:** Simdega 81;
- ❖ **Gangetic West Bengal:** Kalyani 72; Haringhata 61; Bijpur 56; Kalna, Hooghly 41 each;
- ❖ **Jharkhand:** Mayurbhanj 56;

- ❖ **Tamil Nadu:** Vedasandur (Dindigul) 52, Vasu Namakkal 50, Tiruppur_Collector_Office(Tiruppur) 44, MSRF_Kannivadi (Dindigul) 41, Thiruchendur (Thoothukudi) 48, Kovilpati(Thoothukudi) 48 & Govt_HSS_Mettur (Salem) 39;
- ❖ **Andaman & Nicobar Islands:** Sri Vijayapuram 49;
- ❖ **Haryana:** Hisar 46, Jind 41, Sirsa 39;
- ❖ **Assam:** ZRS Shillongani 44;
- ❖ **Punjab:** Bhatinda 41, Faridkot 39;
- ❖ **West Uttar Pradesh:** GB Nagar 41, Jalaun, Agra & Bareilly 39 Each, Hindon 37;
- ❖ **East Madhya Pradesh:** Rewa 41;
- ❖ **Madhya Maharashtra:** Rajgurunagar (Pune) 41, Kalwan (Nashik) 41, Sangli 35

ANNEXURE I

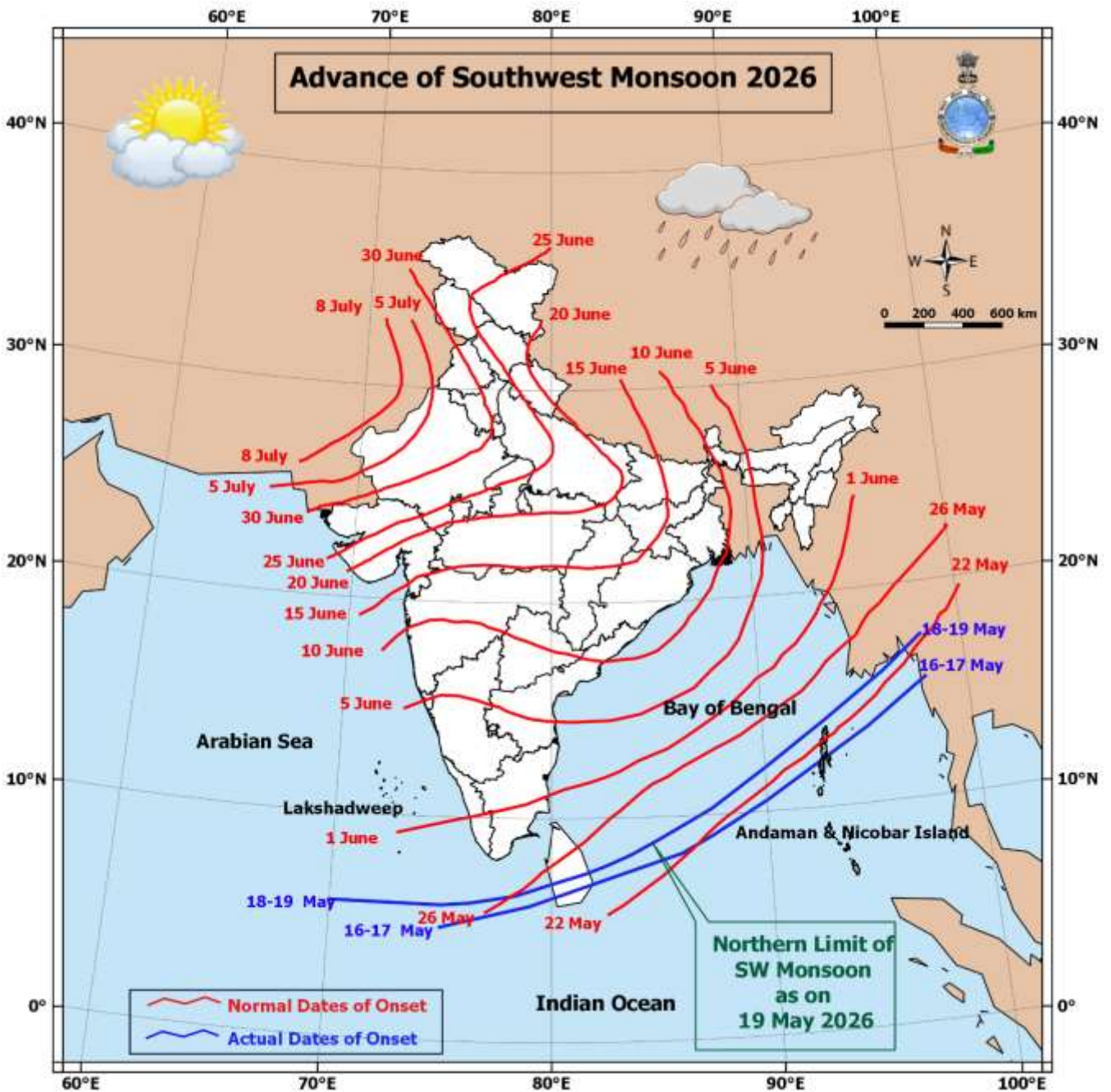
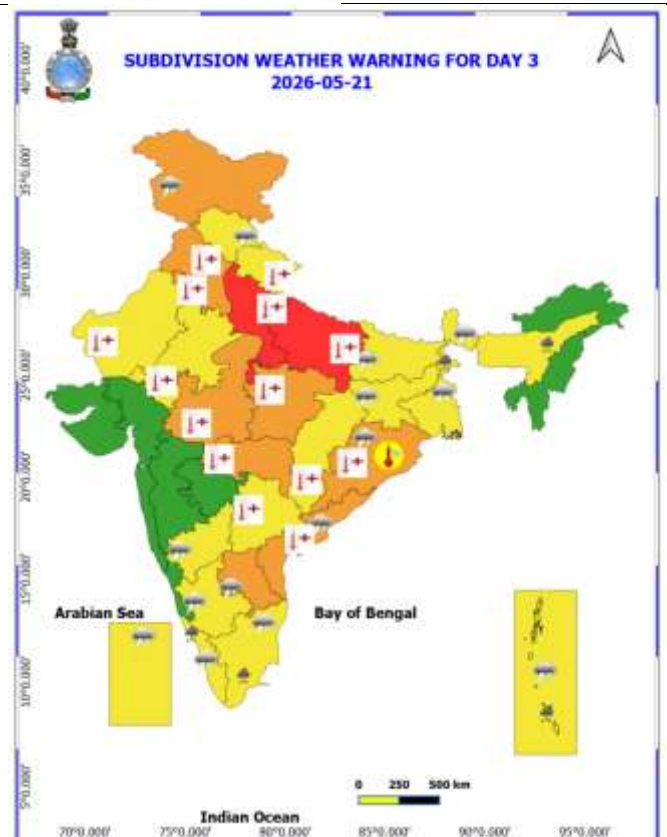
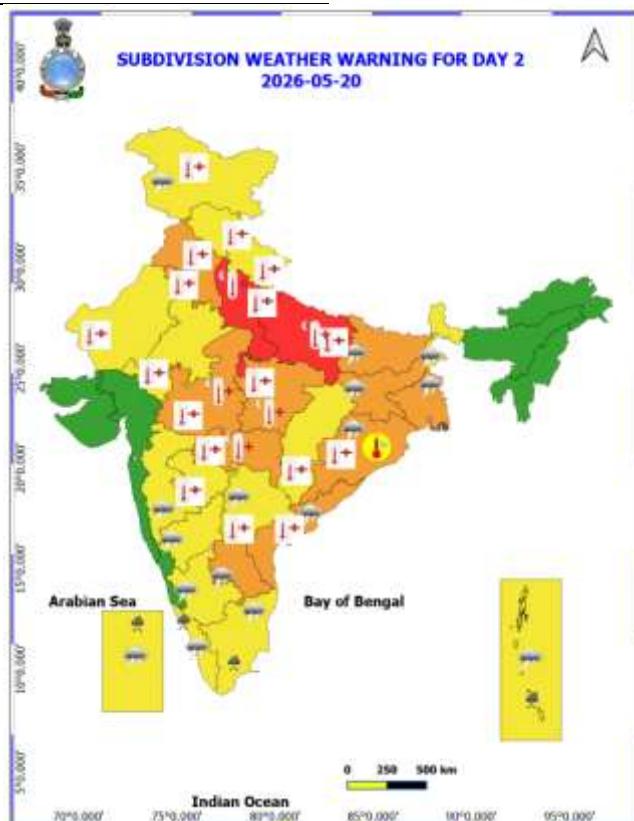
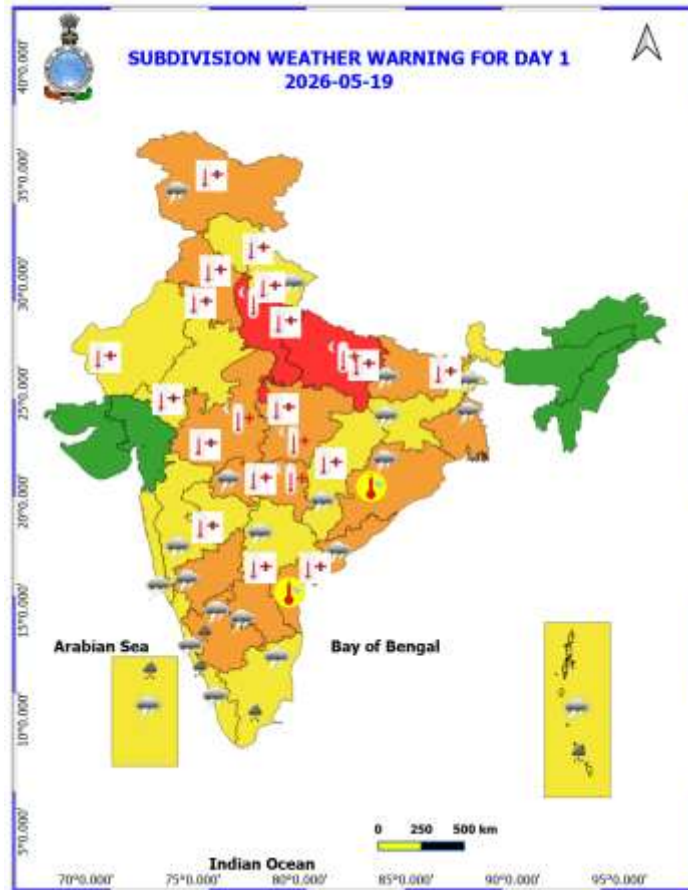
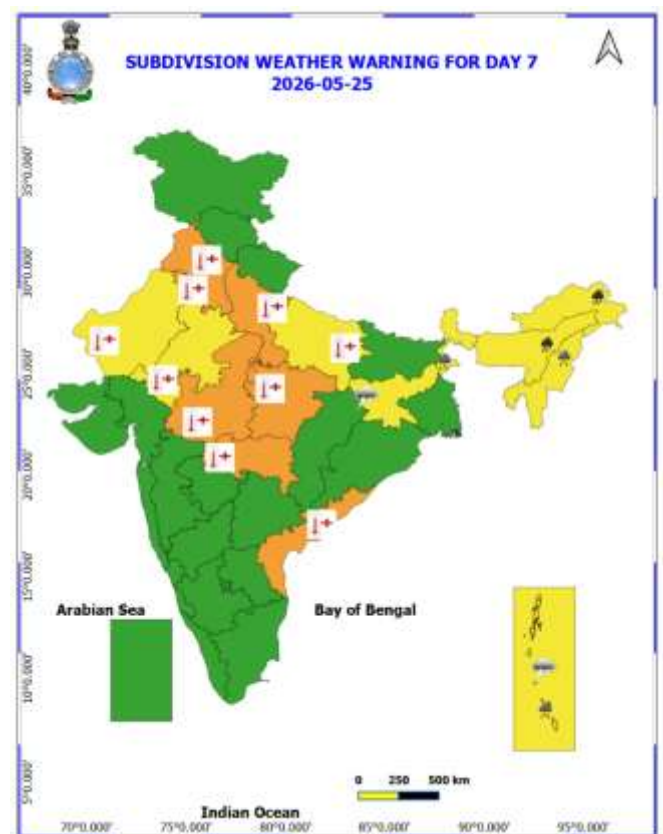
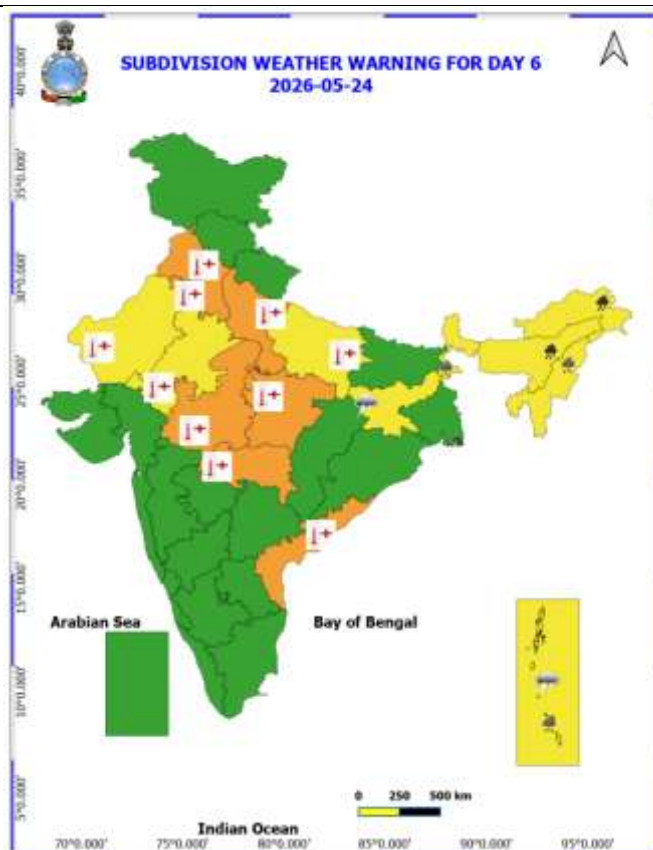
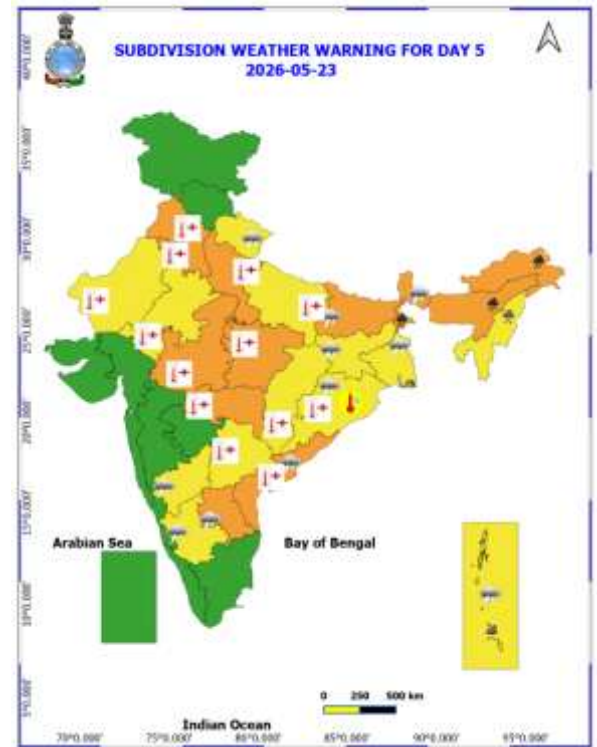
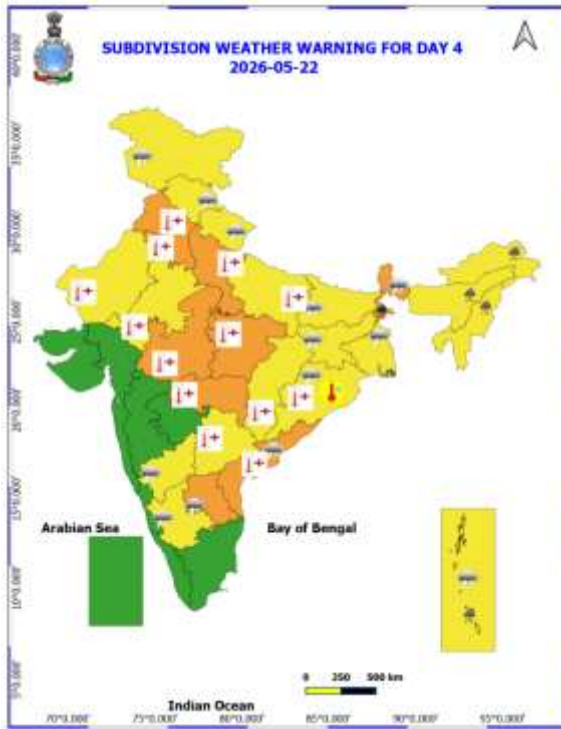


Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	19- May	20- May	21- May	22- May	23- May	24- May	25- May
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	SCT	SCT	SCT	FWS	WS	WS	WS
3	ASSAM & MEHGHALAYA	ISOL	SCT	SCT	FWS	WS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

There has been a rise in maximum temperatures by 1-2°C and a rise in minimum temperatures by 1-2°C during the past 24 hours over Delhi. The maximum temperatures were in the range of 43-45°C, and the minimum temperatures were in the range of 27-28°C, respectively over the past 24 hours in Delhi. The minimum temperatures are above normal (1.6°C to 3.0°C) at a few places and normal (-1.5°C to 1.5°C) at the remaining places over Delhi. The maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places and above normal (1.6°C to 3.0°C) at the remaining parts over Delhi. Mainly clear sky with surface wind speeds up to 25 kmph gusting to 46 kmph from the west-northwest direction over Delhi during the past 24 hours. Mainly clear sky with surface wind speeds up to 22 kmph is likely to prevail from the west-southwest direction over the region in the forenoon today.

Weather Forecast:

19.05.2026: Mainly clear sky. Heat wave conditions at many places. Sustained strong surface wind speeds reaching 15-25 kmph occasionally gusting to 35 kmph during the day. The maximum temperatures over Delhi are likely to be in the range of 44°C to 46°C. The maximum temperatures will be markedly above normal (> 5.0°C) at many places over Delhi. The predominant surface wind is likely to be from the west direction with surface wind speed reaching up to 20 kmph during the afternoon hours. The wind speed remains the same at up to 20 kmph from the west during the evening and night.

20.05.2026 Mainly clear sky. Heat wave conditions at many places. The maximum and minimum temperatures over Delhi are likely to be in the range of 44°C to 46°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 maximum temperatures will be appreciably above normal (3.1°C to 5.0°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 remain the same up to 15 kmph from the west direction during the afternoon. The wind speed will remain the same up to 15 kmph from the west direction during the evening and night.

21.05.2026: Mainly clear sky. Heat wave conditions at a few places. Sustained strong surface wind speeds reaching 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 43°C to 45°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 maximum temperatures will be appreciably above normal (3.1°C to 5.0°C) at most places over Delhi. The predominant surface wind is likely to be from the west direction with wind reaching up to 20 kmph during the morning hours. The surface wind speed will be increase becoming up to 22 kmph from the west direction during the afternoon. The wind speed will be decrease becoming up to 15 kmph from the west direction during the evening and night.

22.05.2026: Mainly clear sky. Heat wave conditions at a few places. Sustained strong surface wind speeds reaching 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 43°C to 45°C and 27°C to 29°C respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places, and maximum temperatures will be appreciably above normal (3.1°C to 5.0°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 be increase becoming up to 22 kmph from the west direction, during the afternoon. The surface wind speed will decrease becoming up to 15 kmph from the west direction during the evening and night.

Impact expected and action suggested due to heat wave conditions:

- **Warning:** Heat wave conditions are expected; however, temperatures are likely to remain above normal. There may be moderate health risks, particularly for vulnerable groups such as infants, the elderly, and individuals with chronic illnesses.
- **Advisory:** Avoid prolonged exposure to heat. Wear lightweight, light-colored, and loose cotton clothing. Cover your head using a cloth, hat, or umbrella when outdoors.

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

- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Jammu-Kashmir on 19th & 21st May; Interior Karnataka on 19th; Coastal Andhra Pradesh & Yanam and Rayalaseema during 19th-23rd May; Gangetic West Bengal on 19th & 20th; Bihar on 19th, 20th & 23rd; Jharkhand on 20th & 23rd; Odisha during 19th-21st 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.
- 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 Tamil Nadu, Kerala & Mahe during 19th-21st; Lakshadweep on 19th & 20th; South Interior Karnataka on 19th May; Andaman & Nicobar Islands during 19th-25th; Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya during 21st-25th May; Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura during 22nd-25th May with **isolated very heavy rainfall over Sub-Himalayan West Bengal & Sikkim on 22nd & 23rd; Arunachal Pradesh on 23rd & 24th; Assam & Meghalaya during 23rd-25thMay.**

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 to severe heat wave conditions likely to continue to prevail over northwest and central India during the week.

Red alert Areas (Uttar Pradesh)

- Very high likelihood of developing heat illness and heat stroke in all ages.
- Extreme care needed for vulnerable people.

Orange alert Areas (many parts of Northwest & Central India)

- 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.

Yellow alert Areas (some parts of north Peninsular India)

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- Wear lightweight, light colour, loose, cotton clothes.
- Cover your head, use a cloth, hat or umbrella.

Agromet advisories for likely impact of Heavy Rainfall

- In **Andaman & Nicobar Islands**, ensure proper drainage in coconut gardens and avoid water stagnation around basins.
- In **Keralam**, 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**, ensure proper drainage in paddy fields, arecanut and mango orchards.
- In **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

- **Jammu & Kashmir** - apply light and frequent irrigation to the standing crops, use temporary shade nets to protect the fruit plants from high temperatures.
- In **Uttarakhand**: Provide irrigation to sunflower, fodder maize, tomato, brinjal, etc.
- In **Punjab**, apply light and frequent irrigation to vegetable, moong fruit plants orchards and onion nurseries.
- In **Haryana**, maintain adequate irrigation in standing sugarcane, cotton and summer fodder crops. Complete paddy nursery preparation with assured irrigation facilities and adopt mulching/moisture conservation practices to reduce water stress in newly sown crops.
- In **Uttar Pradesh**, provide frequent irrigation and mulching for standing crops such as maize, green gram, black gram, sugarcane, sunflower, vegetables, and fruit plants such as mango, banana, and papaya.
- In **Rajasthan**, apply need-based irrigation to green gram and summer cucurbit crops such as bottle gourd, pumpkin, ridge gourd, cucumber, bitter melon, and summer ladyfinger, as well as to young fruit plants such as mango, amla, pomegranate, wood apple, and plum. Undertake soil mulching/mulching with straw/polythene to reduce water loss by evaporation.
- In **Madhya Pradesh**, apply light irrigation to maize, *moong*, *urd*, groundnut, and vegetable crops as required.
- In **Chhattisgarh** - Apply light irrigation after weeding and hoeing in *rabi* maize, banana, and papaya plantations. Complete harvesting of wheat and chickpea, and ensure safe storage.
- In **Marathwada and Vidarbha**, provide light and frequent irrigation to vegetables and orchards during morning or evening hours, with increased frequency during critical growth stages. 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 **Bihar** - Apply light and frequent irrigation to the standing crops. Carry out mulching with crop residue, straw or polythene to minimize the loss of soil moisture. Use temporary shade nets to protect the fruit plants from high temperatures.
- In **Odisha** - Provide light irrigation to *Boro* paddy, summer maize, green gram, black gram, groundnut, and vegetable fields. Ensure adequate soil moisture is maintained in mango and cashew crops.
- In **Telangana** - Provide irrigation to mango orchards and vegetable crops, as required.
- In **Andhra Pradesh - Rayalaseema** - Provide light irrigation to maintain adequate moisture in standing crops such as paddy, *rabi* maize, sorghum, chickpea, groundnut, sesame, sugarcane, vegetables, and fruit orchards.
- Apply mulching to conserve soil moisture in the standing 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

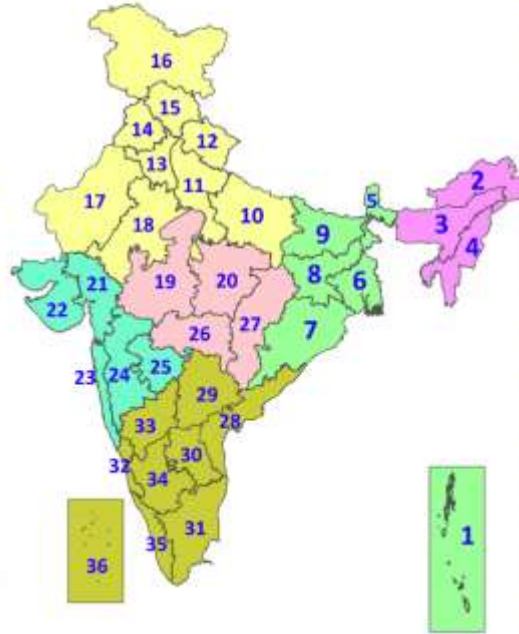
- Keep the animals inside the shed during hailstorms/ heavy rainfall and provide them with balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain excess water, thereby preventing fish from escaping in the event of 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, Kerala and Lakshadweep), 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 62-87 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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