



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 27th April, 2025
Time of Issue: 1345 hours IST

- Subject:** i) Heavy rainfall spell likely to continue over Northeast India till 28th April, 2025.
ii) Rainfall accompanied with thunderstorms, lightning, Hailstorms, squally/gusty winds over East & adjoining central India to continue till 01st May, 2025.
iii) Heat wave conditions likely over some parts of Northwest India during 27th to 01st May and over West Madhya Pradesh during 29th to 01st May with reduction over these areas from 30th May 2025.

i. Realised weather during past 24 hours till 0830 hours IST of today, the 27th April 2025 (Annexure I):

- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 50-70 kmph prevailed at isolated places over Assam, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Odisha, Madhya Maharashtra, Tamilnadu, Kerala & Mahe, Karnataka.
- ❖ **Hailstorm** occurred at isolated places over Interior Karnataka.
- ❖ **Heavy rainfall** recorded at isolated places over Arunachal Pradesh, Assam & Meghalaya, Odisha, Chhattisgarh,
- ❖ **Heat wave conditions** prevailed in isolated pockets of East Uttar Pradesh, Bihar.
- ❖ **Duststorm** occurred at isolated places over West Rajasthan.

For more details of realised weather, kindly refer [Annexure I](#)

Temperature:

- ❖ Maximum Temperature observations during past 24 hours till 0830 hours IST of today are appended in [Annexure II](#).

ii. Weather Systems, Forecast and Warnings (refer to Annexure III & IV):

- ❖ An upper air cyclonic circulation lies over central Assam in lower tropospheric levels. A north-south trough runs from west Vidarbha to Gulf of Mannar in lower tropospheric levels. A trough of low runs at mean sea level chart from central parts of Uttar Pradesh to North Bangladesh.
- ❖ A Western Disturbance as a trough in middle tropospheric westerlies roughly along Long. 77°E to the north of Lat. 18°N and a cyclonic circulation lies over southwest Rajasthan & neighbourhood in lower tropospheric levels.
- ❖ Under the influence of these systems:
 - ✓ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Northeast India during next 5 days and **thundersquall (wind speed reaching 50-70 kmph)** likely over Assam & Meghalaya during 27th-29th April.
 - ✓ **Heavy rainfall** likely over Assam & Meghalaya on 27th; Nagaland, Manipur, Mizoram & Tripura on 27th & 28th; Arunachal Pradesh on 28th April.
 - ✓ **Isolated hailstorm** activity likely over Assam & Meghalaya on 27th April.
 - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 40-50 kmph gusting to 60 kmph** likely over East India,

East Madhya Pradesh, Vidarbha, Chhattisgarh and East Uttar Pradesh during 26th-30th April with **Thundersquall (wind speed reaching 50-60 kmph)** likely over East Madhya Pradesh, Gangetic West Bengal, Bihar on 27th & 28th; Vidarbha, Chhattisgarh on 27th & 30th; Jharkhand on 28th April & 01st May; Odisha during 27th-29th April.

- ✓ **Isolated hailstorm** activity likely over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Gangetic West Bengal, Bihar, Jharkhand on 27th; Chhattisgarh on 27th & 28th; Odisha during 27th-29th April.
 - ✓ **Isolated heavy rainfall** over Sub-Himalayan West Bengal & Sikkim, Bihar on 27th; Gangetic West Bengal on 28th; Jharkhand on 29th April & 01st may; Odisha on 27th and during 29th April-01st may.
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal during next 7 days with **thundersquall (wind speed reaching 50-60 kmph)** likely over North Interior Karnataka during 27th April-01st May.
 - ✓ **Isolated heavy rainfall** likely over Kerala & Mahe during 28th-30th April.
 - ✓ **Isolated hailstorm** activity likely over North Interior Karnataka on 27th, 30th & 01st May; South Interior Karnataka on 27th April.
 - ✓ **Isolated to scattered** light rainfall with **thunderstorm, lightning & strong winds speed reaching 30-40 kmph** likely over Western Himalayan region and plains of northwest India during 30th April to 03rd May.
- ❖ A fresh and active Western Disturbance likely to impact Northwest India from 02nd May, 2025.

Temperature Forecast:

- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Northwest India during next 4 days and fall by 2-4°C for subsequent 3 days.
- ❖ Gradual fall in maximum temperatures by 2°C likely over Central India during next 2 days and rise by 2-3°C for subsequent 3 days.
- ❖ Gradual fall in maximum temperatures by 3-5°C likely over East India during next 3 Days and no significant change during subsequent 4 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Maharashtra during next 5 days.
- ❖ No significant change in maximum temperatures likely over Gujarat during next 24 hours and rise by 2-3°C for subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over South Peninsular India during next 2 days and fall by 2-3°C for subsequent 3 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

Heat wave, warm night and Hot & Humid weather warning:

- ❖ **Heat wave conditions** very likely in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 27th-29th; Haryana during 27th -30th; Himachal Pradesh during 28th -30th; Punjab, West Rajasthan during 27th-01st May; East Rajasthan on 29th & 30th; West Madhya Pradesh during 29th-01st May.
- ❖ **Hot & humid weather** is likely to prevail over Gujarat state, Tamilnadu Puducherry & Karaikal during 27th-01st May; Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka on 27th & 28th; Marathwada during 28th-01st May.

iv. Weather conditions and forecast over Delhi/NCR during 27th April to 30th April, 2025 (Annexure V)

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>

Significant weather reported during past 24 hours till 0830 hours IST of today:

- ❖ **Light/moderate Rainfall with thunderstorm & lightning observed at most places over Assam & Meghalaya;** at many places over Gangetic West Bengal, Arunachal Pradesh ; at a few places over Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Karnataka, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Odisha; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Marathwada, Madhya Maharashtra, Tamilnadu Puducherry & Karaikal, Rayalaseema, Telangana, Interior Karnataka.

Rainfall recorded (in cm):

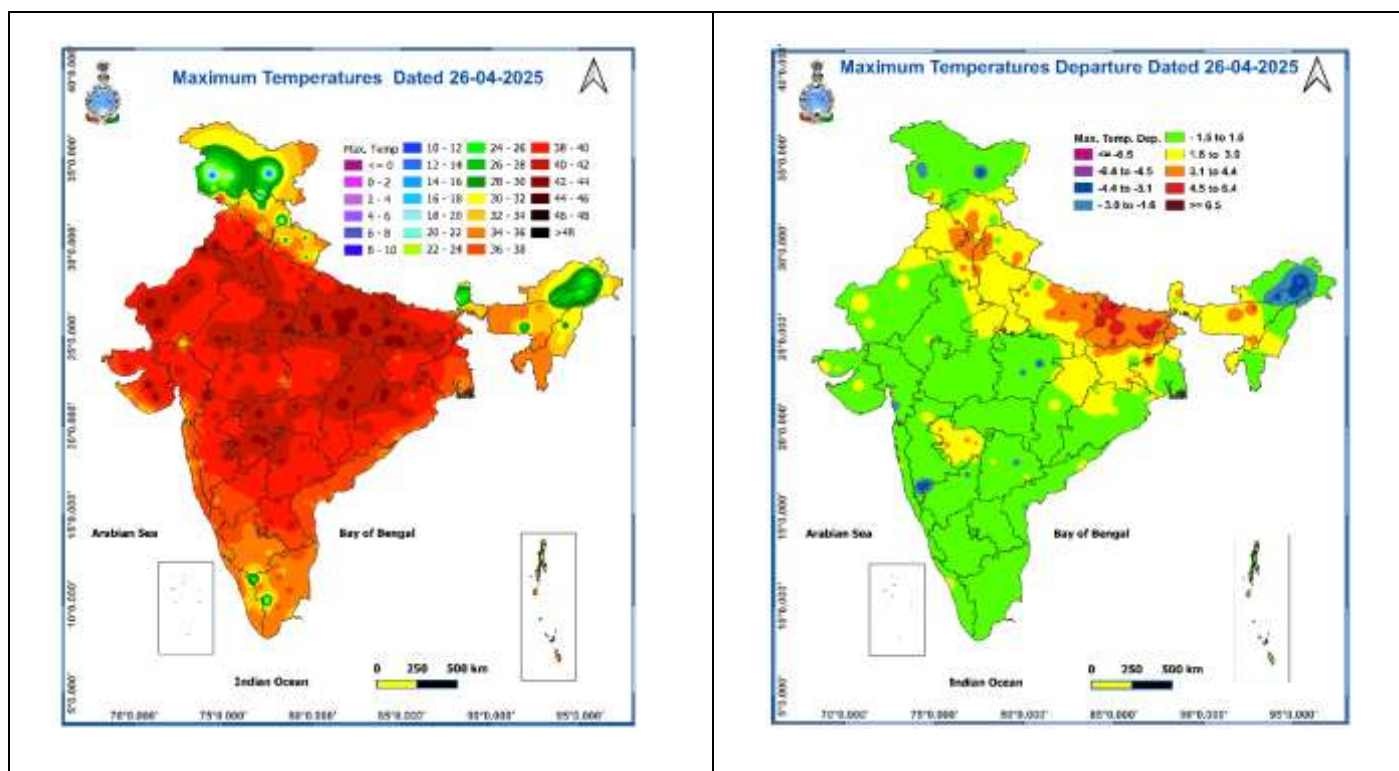
- ❖ **Arunachal Pradesh:** Koloriang 9, Kibithu (dist Anjaw) 4;
- ❖ **Odisha:** Jaipatna (dist Kalahandi) 8, Nawapara (dist Nawapara) 7, Raighar (dist Nawarangpur) 5, Muruda (dist Mayurbhanj) 5, Betanati (dist Mayurbhanj) 5, Papadahandi (dist Nawarangpur) 5,
- ❖ **Assam & Meghalaya:** Bokajan 7, Bhaghmara (dist South Garo Hills) 3, Mawsynram (dist East Khasi Hills) 3, Sonari_arg (dist Sibsagar) 3, Williamnagar_ Aws (dist East Garo Hills) 3, Mohanbari_aws (dist Dibrugarh) 3,

Realised Gusty wind since last 24 hours (till 0830 hrs IST) (Max Gust in knots)

- ❖ **Assam & Meghalaya:** Chandubi 42, Mawsynram 41 Sonitpur_Amfu 18 Ghoramara_Aegcl 17 Dhekiajuli Aegcl 17 Agomani 23 Gauripur_Aegcl 24 Gossaigaon_Amfu 24 Kokraghar 29, Salakati_Aegcl 26 Kajalgaon 19 Bongaigaon 20 Dudhnoi_Kvk 21 Goalpara 27 Chandubi 42 Kukurmara_Mirza_Aegcl 17 Amingaon 28 Guwahati 23 Guwahati_City 22 Gauhati_University 32 Down_Town_University 24 Nalbari_Kvk 18 Shillongani_Amfu 17, Umlapher 21 Umpanai_Apdcl 18 Borgaon_Hwc 27 Habang_Circle 29 Lkhep 22 Halflong_Aegcl 17 Dullavcherra_Aegcl 19 Silchar_Jns_College 28 Diphu_Amfu 22 Marigaon 19 Panchgram_Aegcl 23 Golaghat_Circle 24 Jorhat_Amfu 25.
- ❖ **Nagaland, Manipur, Mizoram & Tripura:** Wokha=39, Thonoknyu_Aws=35, Tripura Nort=21
- ❖ **Gangetic West Bengal:** Digha (24 Kt), Dum Dum (25 Kt) Alipore (33 Kt) Bijpur (34 Kt); Amta(33 Kt); Kalyani (32 Kt); Sonarpur (30 Kt); Uluberia (29 Kt); Barrackpore (28 Kt); Digha, Raidighi, Agarpura (26 Kt); Gangasagar, Nimpith, Purulia (22 Kt); Canning (21 Kt); Diamond Harbour (20 Kt); Asansol (19 Kt); Durgapur, Berhampur (17 Kt); Malda (16 Kt)
- ❖ **Odisha:** Mayurbhanj (29 Kt)
- ❖ **Jharkhand:** Bokaro (23 Kt)
- ❖ **Bihar:** Madhubani (19 Kt)
- ❖ **Himachal Pradesh:** Bajaura &Tabo-26kt, Seobagh-23
- ❖ **Uttarakhand:** Jollygrant-21, Pantnagar-18, Kosyakutoli-18
- ❖ **Haryana:** Gurgaon 24 Kt
- ❖ **West Uttar Pradesh:** Agra(Iaf)-12g23kt
- ❖ **East Uttar Pradesh:** Lucknow-15g25kt
- ❖ **West Madhya Pradesh:** Guna- 75kmph, Sagar, Sehore,Ashok Nagar- 55kmph, seoni -46 kmph,shajapur- 37 kmph
- ❖ **East Madhya Pradesh:** singrauli-70kmph, jabalpur-46 kmph, mandla-42 kmph, damoh-41kmph, sahdol-37 kmph, chhindwara-37 kmph,anuppur, rewa- 35kmph

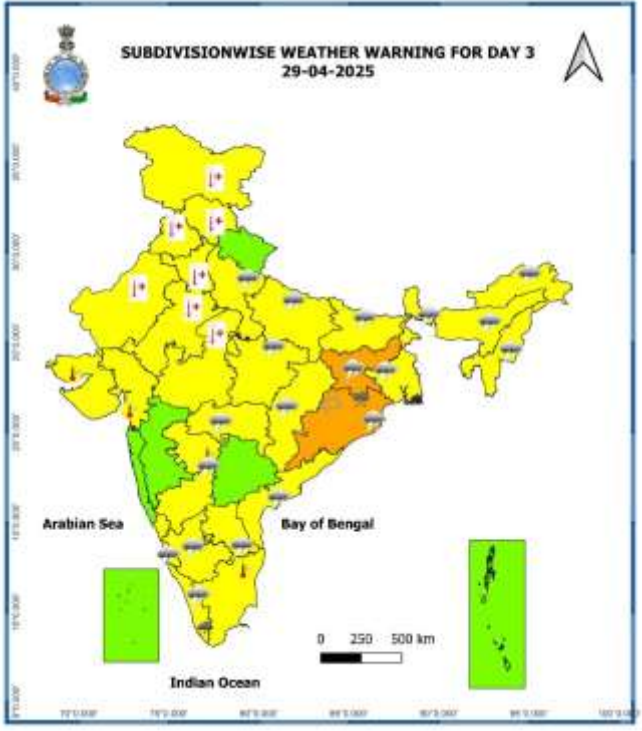
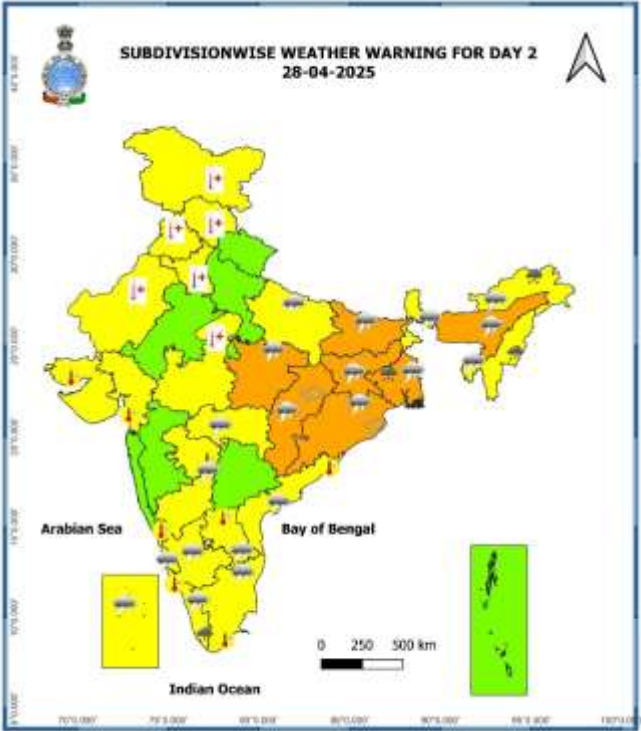
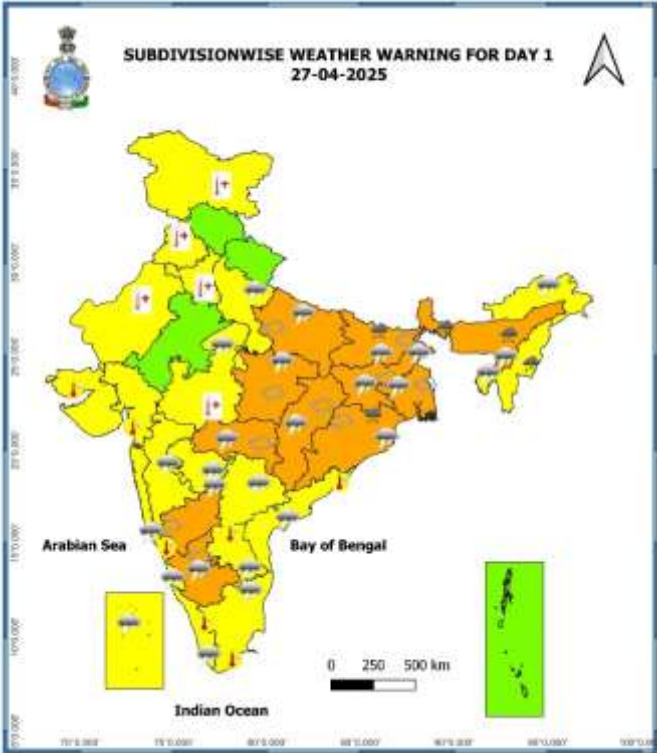
Temperature observations during past 24 hours till 0830 hours IST of today:

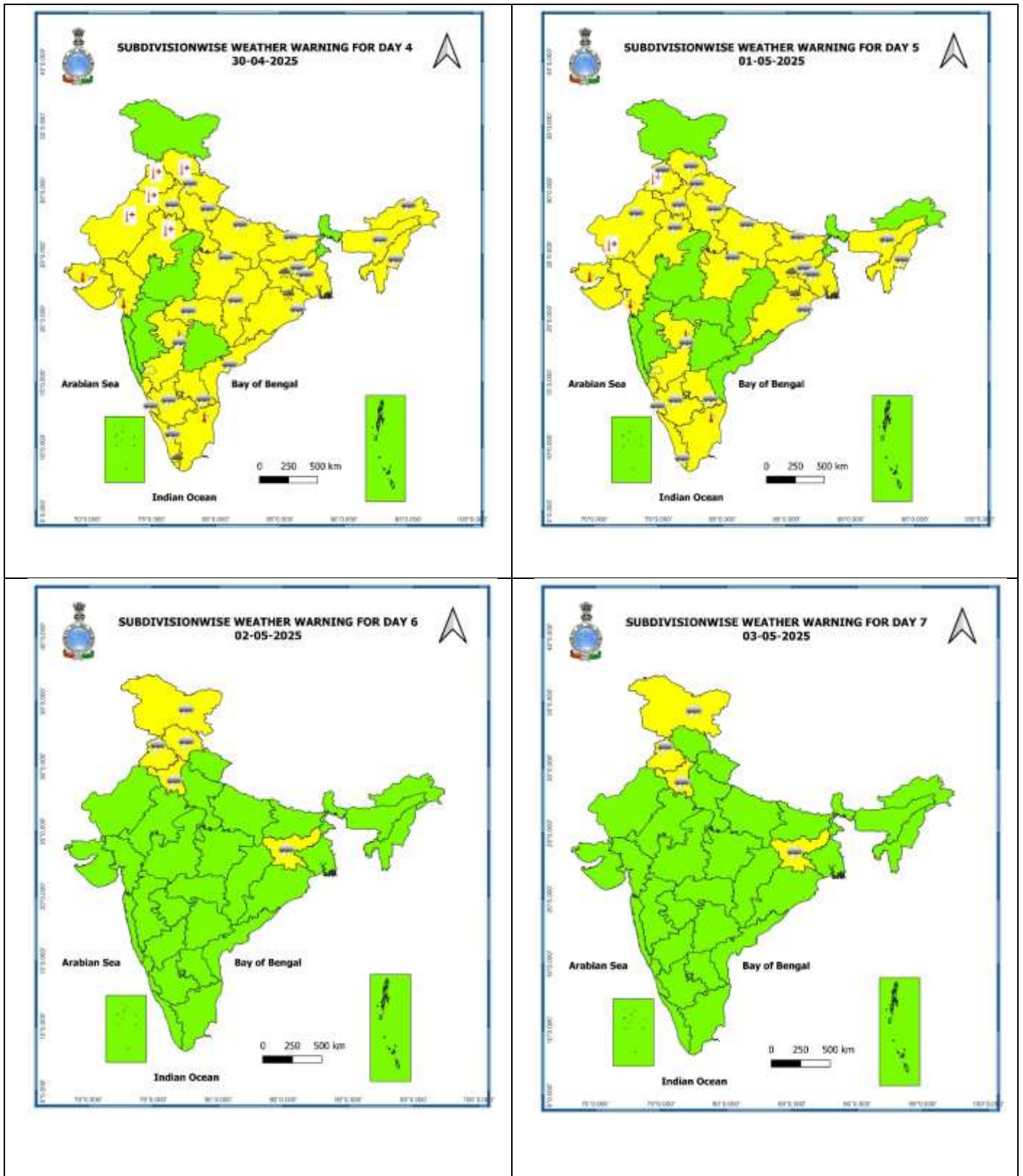
- ❖ Maximum Temperatures had **risen by 1-3°C** at most places over Himachal Pradesh, Delhi, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Kerala & Mahe; at many places over Madhya Maharashtra, Gujarat state; at isolated places over Uttar Pradesh, Bihar, Telangana and **fallen by 3-5°C** at most places over East Madhya Pradesh; at isolated places over North Interior Karnataka; **1- 3°C** at most places over Vidarbha, Chhattisgarh, Marathwada; at many places over East Rajasthan, Odisha, Gangetic West Bengal; at a few places over West Madhya Pradesh, Rayalaseema, Tamil Nadu, Puducherry & Karaikal; at isolated places over Arunachal Pradesh, Coastal & South Interior Karnataka and no significant change over rest parts of the country
- ❖ Maximum Temperatures are **appreciably above normal (3.1°C to 5.0°C)** at a few places over Uttar Pradesh, Himachal Pradesh, Bihar, Jharkhand; at isolated places over Punjab, Haryana-Chandigarh Delhi, Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at a few places over Gangetic West Bengal, Chhattisgarh, Saurashtra & Kutch, Konkan & Goa; at isolated places over Sub-Himalayan West Bengal & Sikkim, West Rajasthan, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha, Telangana. (Fig 2)
- ❖ Maximum temperatures were in the **range of 40-44°C** at many places over plains of Northwest and northern parts of East India and **35-40°C** at many places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe; at a few places over North Interior Karnataka; at isolated places over Western Himalayan Region and Northeast India. Yesterday, the **highest maximum temperature of 44.8°C** was reported at **Sultanpur & Prayagraj (East Uttar Pradesh)**.

Fig. 1: Maximum Temperatures**Fig. 2: Departure of Maximum Temperatures**

7 Days Rainfall Forecast								
S. No.	Subdivision	27-Apr	28-Apr	29-Apr	30-Apr	01-May	02-May	03-May
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	FWS	WS	FWS	SCT	ISOL	ISOL
2	ARUNACHAL PRADESH	WS	FWS	FWS	SCT	SCT	SCT	SCT
3	ASSAM & MEGHALAYA	WS	FWS	FWS	SCT	SCT	FWS	SCT
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	FWS	FWS	SCT	SCT	SCT	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	FWS	SCT	SCT	SCT	SCT
6	GANGETIC WEST BENGAL	FWS	WS	FWS	FWS	FWS	SCT	SCT
7	ODISHA	SCT	FWS	FWS	FWS	FWS	FWS	FWS
8	JHARKHAND	SCT	FWS	FWS	FWS	SCT	SCT	SCT
9	BIHAR	SCT	FWS	SCT	SCT	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	ISOL	ISOL	ISOL	SCT	SCT	SCT	ISOL
11	WEST UTTAR PRADESH	ISOL	DRY	ISOL	ISOL	SCT	SCT	ISOL
12	UTTARAKHAND	ISOL	DRY	DRY	ISOL	SCT	SCT	FWS
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
14	PUNJAB	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	SCT	SCT	SCT
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	ISOL	SCT	SCT
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	ISOL	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
21	GUJARAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	DRY	DRY	DRY	DRY	ISOL	ISOL
25	MARATHAWADA	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
26	VIDARBHA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
27	CHHATTISGARH	SCT	ISOL	ISOL	ISOL	SCT	SCT	SCT
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	SCT	DRY	DRY	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAİKAL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
32	COASTAL KARNATAKA	SCT	SCT	ISOL	ISOL	SCT	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA & MAHE	FWS	SCT	SCT	SCT	SCT	SCT	SCT
36	LAKSHADWEEP	FWS	SCT	SCT	DRY	DRY	DRY	DRY

- As the lead period increases forecast accuracy decreases.





- Action may be taken based on ORANGE AND RED COLOUR 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 27 to 30 Apr. 2025

Past Weather:

There has been rise in minimum temperature upto 03 - 06°C and rise in maximum temperature upto 01°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 42 to 43°C and 25 to 27°C respectively. The minimum temperature was above normal upto 01 - 03°C and maximum temperature was above normal upto 02 - 04°C over Delhi/NCR. Predominant surface wind from the southwest direction with wind speeds less than 18 kmph gusting upto 40 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind speed less than 14 kmph from the west direction prevailed over the region in the forenoon today.

Weather Forecast:

27.04.2025: Partly cloudy sky. Occasional sustained surface winds (speed 10-20 kmph) gusting upto 30 kmph. The maximum temperature over Delhi is likely to be in the range of 39 to 41°C. The maximum temperature will be above normal upto 01 - 03°C. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 16 kmph till evening. It would decrease becoming less than 10 kmph from the southeast direction during the night.

28.04.2025: Partly cloudy sky. Occasional sustained surface winds (speed 10-20 kmph) gusting upto 30 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 40 to 42°C and 25 to 27°C respectively. The minimum temperature will be above normal upto 02 - 04°C and maximum temperature will be above normal upto 01 - 03°C. The predominant surface wind will likely be from the southeast direction with a wind speed of 06-10 kmph during morning hours. The wind speed will gradually increase thereafter becoming 12-14 kmph from the southeast direction during the afternoon. It will increase becoming less than 16 kmph from the southeast direction during evening and night.

29.04.2025: Partly cloudy sky. Occasional sustained surface winds (speed 10-20 kmph) gusting upto 30 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 38 to 40°C and 24 to 26°C respectively. The minimum temperature will be below normal upto 01 - 03°C and maximum temperature will be near normal. The predominant surface wind will likely be from the southeast direction with a wind speed of 12-14 kmph during morning hours. The wind speed will gradually decrease becoming 08-10 kmph from the southeast direction in the afternoon. It will increase becoming less than 18 kmph from the southeast direction during evening and night. It is also likely for very light rain/ drizzle. Thunderstorms/lightning accompanied with sustained surface wind 30-40 kmph gusting to 50 kmph.

30.04.2025: Partly cloudy sky. Strong surface winds (speed 20 -30 kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 38 to 40°C and 25 to 27°C respectively. The minimum temperature will be below normal upto 01 - 03°C and maximum temperature will be near normal. The predominant surface wind will likely be from the southeast direction with a wind speed less than 16 kmph during morning hours. The wind speed will gradually decrease becoming 10-14 kmph from the southeast direction in the afternoon. It will increase becoming less than 18 kmph from the southeast direction during evening and night.

Impact expected and Action Suggested:

- Be cautious and take precautionary measures though there is no likelihood of heat wave conditions. There is likelihood of heat related impact to vulnerable population as the temperatures are likely to be above normal.
- Moderate health concern for vulnerable people e.g. infants, elderly people with chronic diseases.
- Avoid heat exposure, wear light weight, light colored, loose, cotton clothes, cover your head, use a cloth, hat or umbrella.

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

- ✓ **Isolated hailstorm** activity likely over North Interior Karnataka on 27th, 30th & 01st May; South Interior Karnataka, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Gangetic West Bengal, Bihar, Jharkhand, Assam & Meghalaya on 27th; Chhattisgarh on 27th & 28th; Odisha during 27th-29th April.
- ✓ **Thundersquall (wind speed reaching 50-60 kmph)** likely over North Interior Karnataka during 27th April-01st May; East Madhya Pradesh, Gangetic West Bengal, Bihar on 27th & 28th; Vidarbha, Chhattisgarh on 27th & 30th; Jharkhand on 28th April & 01st May; Odisha during 27th-29th April.

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 and action suggested due to Heat wave conditions over some parts of Northwest India during 27th to 01st May and over West Madhya Pradesh during 29th to 1st May

Yellow alert Areas

- 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.

Impact & Action Suggested due to heavy rainfall over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar on 27th; Nagaland, Manipur, Mizoram & Tripura on 27th & 28th; Arunachal Pradesh, Gangetic West Bengal on 28th April. Kerala & Mahe during 28th-30th; Jharkhand on 29th April & 01st may; Odisha on 27th and during 29th April-01st may.

Impact Expected

- ❖ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ❖ 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
- ❖ Damage to horticulture and standing crops in some areas due to inundation.
- ❖ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

Action Suggested

- ❖ Check for traffic congestion on your route before leaving for your destination.
- ❖ Follow any traffic advisories that are issued in this regard.
- ❖ Avoid going to areas that face the water logging problems often.
- ❖ Avoid staying in vulnerable structure.

Agromet advisories for likely impact of Hailstorm / Heavy Rainfall / Gusty Winds / Heat wave

- In **North Eastern States, West Bengal & Sikkim, Odisha and Bihar**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Assam, Meghalaya, West Bengal, Odisha, Bihar, Jharkhand, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh and Interior Karnataka**, use hail net and hail caps to prevent mechanical damage in vegetables and orchards due to the possibility of hailstorms.
- To protect standing crops, vegetables and orchards from adverse effects of heat waves and high temperatures, apply light and frequent irrigation in the evening.
- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.

Livestock / Poultry / Fishery

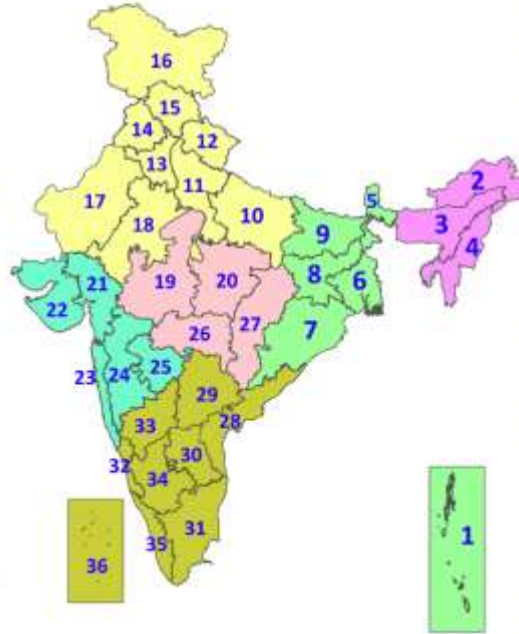
- Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also, provide clean, hygienic and plenty of drinking water to animals.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

Legends & abbreviations:

- ❖ **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** 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, 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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Hot and Humid: When maximum temperatures remain 3°C above normal along with the above normal relative humidity.