



**Government of India
Ministry of Earth Sciences
India Meteorological Department**



Press Release

Date: 14th May, 2025

Time of Issue: 1320 hours IST

Subject: i) Rainfall accompanied with thunderstorms and lightning likely to continue over South Peninsular India & adjoining central India during next 5 days with isolated heavy rainfall over Andhra Pradesh, Karnataka, Kerala and Tamilnadu during next 3-4 days.
ii) Heavy to very heavy rainfall accompanied with thunderstorms & lightning likely over Northeast India during next 5 days and over Sub-Himalayan West Bengal & Sikkim during next 3 days.
iii) Heat wave conditions likely over Uttar Pradesh during 15th-18th; West Rajasthan during 15th-17th may 2025.

Advance of Southwest Monsoon: (Annexure I):

- ❖ The Northern Limit of Monsoon continues to pass through 5°N/75°E, 5°N/80°E, 6°N/86°E, 8.5°N/90°E, Hut Bay, 13°N/95°E. and 16°N/98°E.
- ❖ Conditions are favourable for further advance of southwest Monsoon over some parts of south Arabian Sea, Maldives & Comorin area; some more parts of South Bay of Bengal, entire Andaman & Nicobar Islands, remaining parts of Andaman Sea; and some parts of central Bay of Bengal during next 2-3 days.

Realised weather during past 24 hours till 0830 hours IST of today, the 14th May 2025 (Annexure II):

- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed with speed 60-100 kmph prevailed at isolated places over Assam & Meghalaya, West Madhya Pradesh, Odisha, Tamilnadu Puducherry & Karaikal; with speed 40-60 kmph prevailed at isolated places over Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, , Tamilnadu Puducherry & Karaikal, Madhya Maharashtra, Marathawada, Kerala & Mahe, Interior Karnataka,
- ❖ **Heavy to very heavy rainfall with extremely heavy rainfall** has been recorded at isolated places over Meghalaya.
- ❖ **Very heavy rainfall** has been recorded at isolated places over Sub-Himalayan West Bengal & Sikkim; **Heavy rainfall** at isolated places over Madhya Maharashtra, Kerala & Mahe, Telangana, Interior Karnataka.

For more details of realised weather, kindly refer **Annexure II**, Detailed observations of Maximum Temperature during past 24 hours till 0830 hours IST of today are appended in **Annexure III**.

i. Weather Systems, Forecast and Warnings (refer to Annexure IV & V):

- ❖ The **Western Disturbance** as a trough aloft in middle & upper tropospheric westerlies runs roughly along Long. 73°E to the north of Lat. 32°N.
- ❖ An **upper air cyclonic circulation** over Uttarakhand in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** over east Bihar & adjoining Sub-Himalayan West Bengal and a trough runs from this cyclonic circulation over east Bihar & adjoining Sub Himalayan West Bengal to north Rayalaseema in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** over Northeast Assam in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over Gujarat state in lower & middle tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over Konkan and its neighbourhood in lower tropospheric levels.

- ❖ An **upper air cyclonic circulation** over Andaman Sea and another over southwest Bay of Bengal adjoining Tamil Nadu coast in lower tropospheric levels.
- ❖ Under the influence of these systems, the following weather is likely:

Northeast India:

- ✓ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed 30-50 kmph** likely over Northeast India during next 5 days with **gusty winds speed reaching 50-60 kmph gusting to 70 kmph** likely over Assam & Meghalaya on 13th May.
- ✓ **Isolated heavy rainfall** over Arunachal Pradesh during 15th-18th, am on 17th & 18th and Nagaland, Manipur, Mizoram & Tripura on 14th & 15th with isolated **very heavy rainfall** over Assam & Meghalaya on 15th & 16th; Arunachal Pradesh on 14th May.
- ✓ **Extremely heavy rainfall** at isolated places over Meghalaya on 14th May.

West India:

- ✓ **Isolated** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Konkan & Goa, Madhya Maharashtra, Marathawada during 14th-18th; Gujarat State on 14th & 15th May.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Madhya Maharashtra on 14th & 15th May.
- ✓ **Isolated heavy rainfall** likely over Madhya Maharashtra on 15th May

South peninsular India:

- ✓ **Scattered to fairly** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu Puducherry & Karaikal, Kerala & Mahe during next 5 days; with **lightning** over Lakshadweep on 14th May.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Telangana during 14th-16th; Interior Karnataka on 14th May.
- ✓ **Isolated heavy rainfall** likely over Tamilnadu Puducherry & Karaikal during 14th-16th; Coastal Karnataka on 14th North Interior Karnataka during 14th-18th; South Interior Karnataka on 14th, 15th and 18th; Rayalaseema on 16th & 18th; Coastal Andhra Pradesh & Yanam on 15th; Kerala & Mahe on 14th and during 18th-20th May.
- ✓ **Hailstorm** also likely at isolated places over Telangana on 14th May.

East & Central India:

- ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Bihar, West Bengal & Sikkim during next 5 days and over Andaman & Nicobar Islands on 14th & 15th May.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Gangetic West Bengal on 15th, Odisha on 14th; Chhattisgarh on 14th & 15th May.
- ✓ **Isolated heavy rainfall** likely over Andaman & Nicobar Islands on 14th & 15th; Sub-Himalayan West Bengal & Sikkim during 15th-17th; with **isolated very heavy rainfall** on Sub-Himalayan West Bengal & Sikkim on 14th May.

Northwest India:

- ✓ **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh during 18th-20th and **with lightning** over Rajasthan on 14th; Punjab, Haryana on 14th & 16th, Uttarakhand on 15th & 16th; East Rajasthan on 17th & 18th May.

Maximum Temperature Forecast:

- ❖ Gradual rise in maximum temperatures by 3°C likely over Northwest India during next 4 days and gradual fall by 2-3°C thereafter for subsequent 3 days.
- ❖ No significant change in maximum temperatures likely over East India during next 2 days and gradual fall by 2-3°C thereafter for subsequent 3 days.
- ❖ Gradual rise in maximum temperatures by 2-4°C over Gujarat State for next 4 days and no large change thereafter for subsequent 3 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

Heat wave and Hot & Humid weather warning:

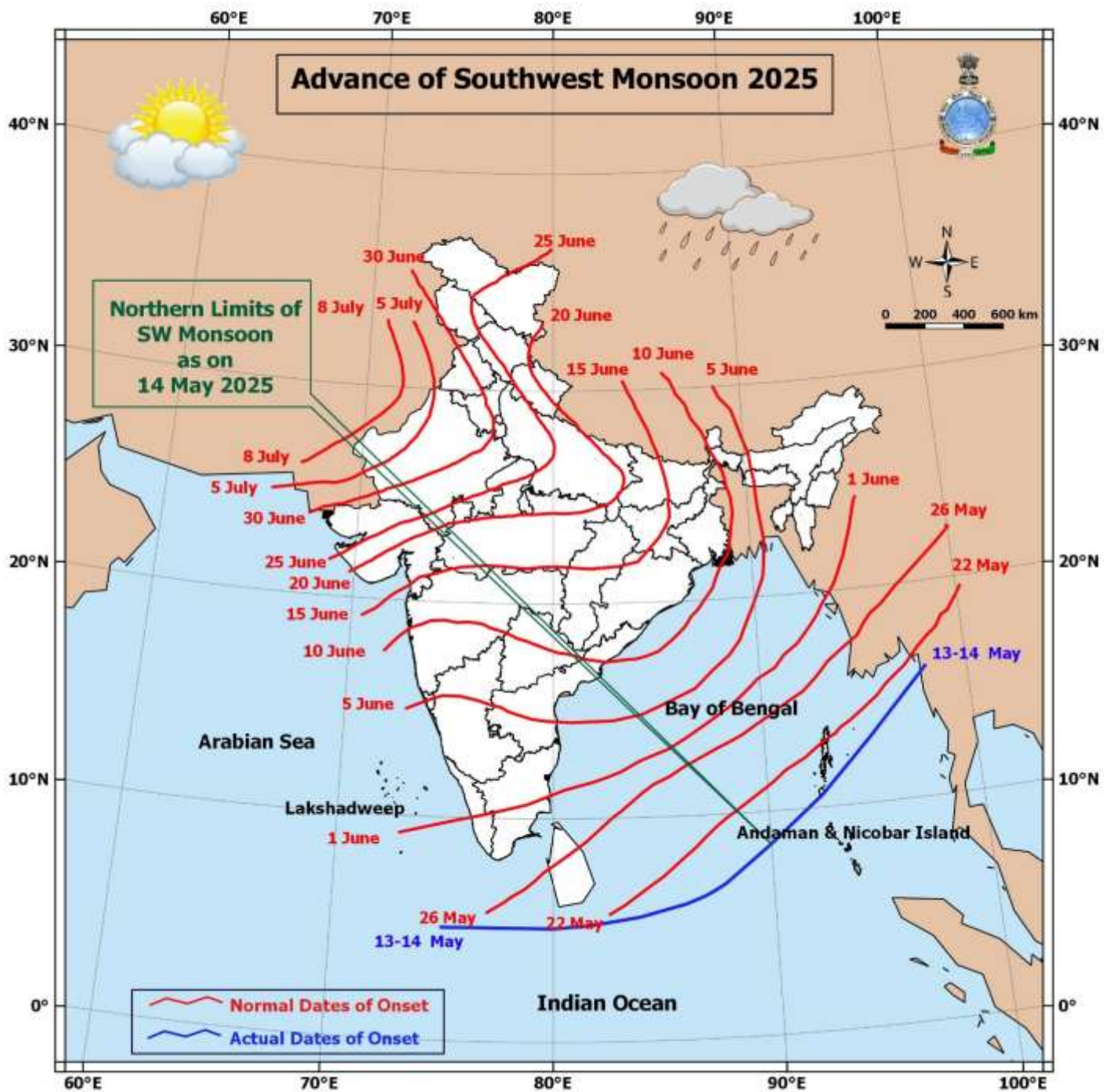
- ❖ **Heat wave conditions** very likely in isolated pockets of West Uttar Pradesh during 14th-18th; East Uttar Pradesh, West Rajasthan during 15th-17th May.
- ❖ **Hot & humid weather** is likely to prevail over Gangetic West Bengal, Jharkhand, Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam on 14th & 15th; Bihar on 14th and during 16th-18th, Odisha during 14th-16th May.
- ❖ **Warm night conditions** very likely in isolated pockets of East Madhya Pradesh on 14th & 15th May.

iv. Weather conditions and forecast over Delhi/NCR during 14th May to 17th May, 2025 (Annexure VI)

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 Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Sub Himalayan West Bengal & Sikkim; at many places over Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe and Lakshadweep; **at a few places** over Odisha, Haryana-Chandigarh-Delhi, Madhya Maharashtra and Telangana; **at isolated places** over Gangetic West Bengal, Jharkhand, Bihar, West Uttar Pradesh, Uttarakhand, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Marathwada, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal; Dry over rest of the country.

Rainfall recorded (in cm) reported during past 24 hours till 0830 hours IST of today:

- ❖ **Assam & Meghalaya:** Majuli (dist Majuli) 20; Mawsynram (dist East Khasi Hills) 19; Shella (dist East Khasi Hills) 17; Williamnagar (dist East Garo Hills) 16; Dhubri CWC (dist Dhubri) 14; B P Ghat (dist Sribhumi) 13; Cherrapunji (dist East Khasi Hills) 12; Goalpara CWC (dist Goalpara), Dhubri IMD (dist Dhubri) 11 Each; Williamnagar AWS (dist East Garo Hills), Cherrapunji(rkm) (dist East Khasi Hills), Dhemaji (dist Dhemaji), Mawkyrwat (dist South West Khasi Hills) 10 Each; Mohanbari AWS (dist Dibrugarh), Resubelpara (dist North Garo Hills) 9 Each; Nongstein (dist West Khasi Hills), Jonai ARG (dist Dhemaji), Goalpara AWS (dist Goalpara) 8 Each; Khowang (dist Dibrugarh), Ranganadi Nt Xing (dist Lakhimpur) 7 Each; Goalpara PTO (dist Goalpara), Badatighat (dist Lakhimpur), Beki Mathungari (dist Barpeta), Moranhat (dist Dibrugarh), N.lakhimpur/Lilabari (dist Lakhimpur), Gossaigaon AWS (dist Kokrajhar), Mawphlang (dist East Khasi Hills) 6 Each; Bihpuria AWS (dist Lakhimpur), Matijuri (dist Hailakandi) 5 Each;
- ❖ **North Interior Karnataka:** Gokak (dist Belagavi) 17; Dharwad PTO (dist Dharwad) 13; Chikodi (dist Belagavi) 8; Hidkal Dam (dist Belagavi), Lokapur (dist Bagalkote), Dharwad HOS (dist Dharwad), Kundgol (dist Dharwad), Hukkeri (dist Belagavi), Muragoda (dist Belagavi) 7 Each; Nippani (dist Belagavi), Hirekerur (dist Haveri), Kaladgi (dist Bagalkote), Hubballi (dist Dharwad), Bailhongal (dist Belagavi), Bilgi (irri.) (dist Bagalkote), Sankeshwar (dist Belagavi) 6 Each; Nargund (dist Gadag), Tavaragera (dist Koppal) 5 Each;
- ❖ **Sub Himalayan West Bengal & Sikkim:** Mangan (dist Mangan) 12; Sankalan (dist Mangan), Cooch Behar (dist Cooch Behar) 10 Each; Barobhisha (dist Alipurduar), Mathabhanga (dist Cooch Behar), Chepan (dist Alipurduar) 7 Each; Amfu Pundibari (dist Cooch Behar), Ghughumari (dist Cooch Behar) 6 Each; Sankosh (dist Cooch Behar) 5;
- ❖ **Telangana:** Sultanabad (dist Peddapalle) 9; Tadwai (dist Kamareddy), Tadwai Mlg (dist Mulugu), Manuguru (dist B. Kothagudem) 6 Each; Aswapuram (dist B. Kothagudem), Govindaraopet (dist Mulugu) 5 Each;
- ❖ **Madhya Maharashtra:** Hatkanangale (dist Kolhapur) 8; Sangamner (dist Ahilyanagar) 7; Karjat (dist Ahilyanagar), Sangli (dist Sangli) 5 Each;
- ❖ **Kerala & Mahe:** Nilambur (dist Malappuram), Kanjirapuzha ARG (dist Palakkad) 8 Each; Cherthala (dist Alapuzha) 6; Vaikom (dist Kottayam), Vaikkom AWS (dist Kottayam) 5 Each;
- ❖ **South Interior Karnataka:** Anavatti (dist Shivamogga) 7; Ksndmc Campus (dist Bengaluru Urban) 5;

Realised Gusty Winds (KMPH) during past 24hours ending at 0300 UTC of today i.e. 14.05.2025;

- ❖ **Assam & Meghalaya:** Jorhat 98, Chandubi 67, Dudhnoi 50, Dullavcherra 46;
- ❖ **Odisha:** Bhadrak 74;
- ❖ **West Madhya Pradesh:** Sehore 61;
- ❖ **Tamil Nadu, Puducherry & Karaikal:** Natham ISRO 61, Tenkasi 41; Tiruppur Collector Office 39;
- ❖ **Madhya Maharashtra:** Baramati (Pune) 59, Pune 55, Nashik 54, Satara 48, Sangli 46;
- ❖ **Himachal Pradesh:** Bilaspur 54;
- ❖ **Uttarakhand:** Chamoli 52;
- ❖ **Nagaland, Manipur, Mizoram & Tripura:** Khoupum 52, Jiribam 48, Imphal 33, Kamjong 31,
- ❖ **Sub-Himalaya West Bengal & Sikkim:** Jalpaiguri 50, Malda 30;
- ❖ **Jharkhand:** Simdega 50;
- ❖ **Chhattisgarh:** Balod 46;
- ❖ **Arunachal Pradesh:** Bomdila 46;
- ❖ **Bihar:** Kishanganj 43;
- ❖ **Marathwada:** Aurangabad, Udgir 42 each;
- ❖ **East Madhya Pradesh:** Mandla 39;
- ❖ **West Uttar Pradesh:** Bulandshahar 38;

- ❖ **Konkan & Goa:** Ratnagiri 37;
- ❖ **Gangetic West Bengal:** Gangasagar, Diamond Harbour, Canning 37 each; Digha, Bolpur 35 each, Sonarpur, Dum Dum, Durgapur 31 each, Burdwan 30;
- ❖ **Vidarbha:** Wardha 35;
- ❖ **Andaman & Nicobar Islands:** Sri Vijayapuram 32;
- ❖ **Haryana:** Panipat 30, Rohtak 25, Jagdishpur 27, Karnal 29, Gurugram 22, Sadalpur 24, Bhiwani 28, Uchani 26, Indri 22;
- ❖ **West Rajasthan:** Churu 22;

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

- ❖ Yesterday, **Maximum Temperatures** were in the **range of 40-43°C** in most parts of the plains of the northwest India and East Madhya Pradesh; in the **range 36-39°C** in many pockets over West, Central, East, south peninsular India Except Odisha and they were **less than 36°C** elsewhere over remaining parts of the country. Yesterday, the **highest maximum temperature of 44.2°C** was reported at **Banda (East Uttar Pradesh)** over the country. (Fig. 1).
- ❖ **Maximum Temperatures** were **above normal (1.6°C to 3.0°C)** at isolated places over Himachal Pradesh, Punjab, East Uttar Pradesh, Jharkhand, Haryana-Chandigarh-Delhi; **markedly below normal (-5.1°C or less)** at isolated places over Madhya Maharashtra, Marathwada, East Rajasthan; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Arunachal Pradesh, Assam & Meghalaya; **below normal (-1.6°C to -3.0°C)** at many places over Gujarat Region, Vidarbha; at isolated places over Saurashtra & Kutch, Madhya Pradesh, North Interior Karnataka, Telangana, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Rayalaseema and normal over rest parts of the country. (Fig. 2).

Fig. 1: Maximum Temperatures

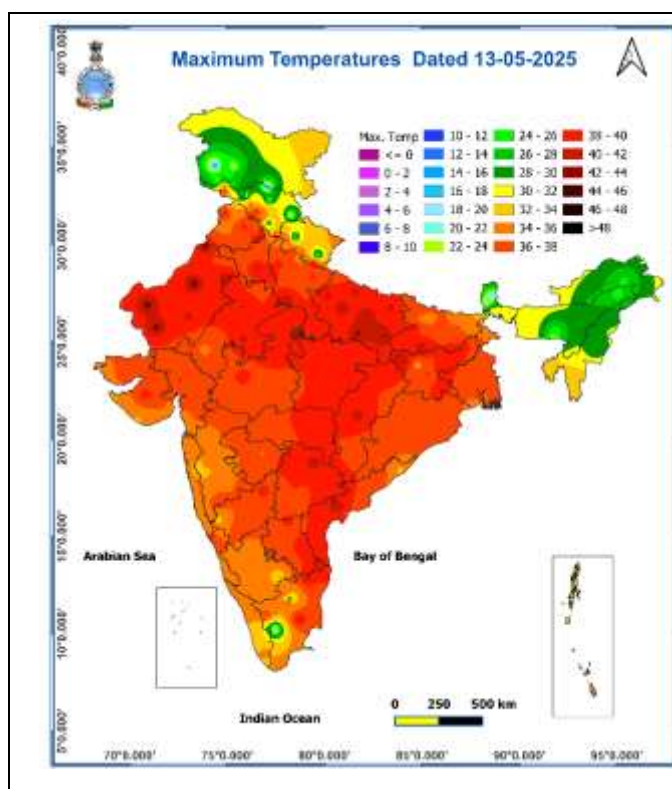
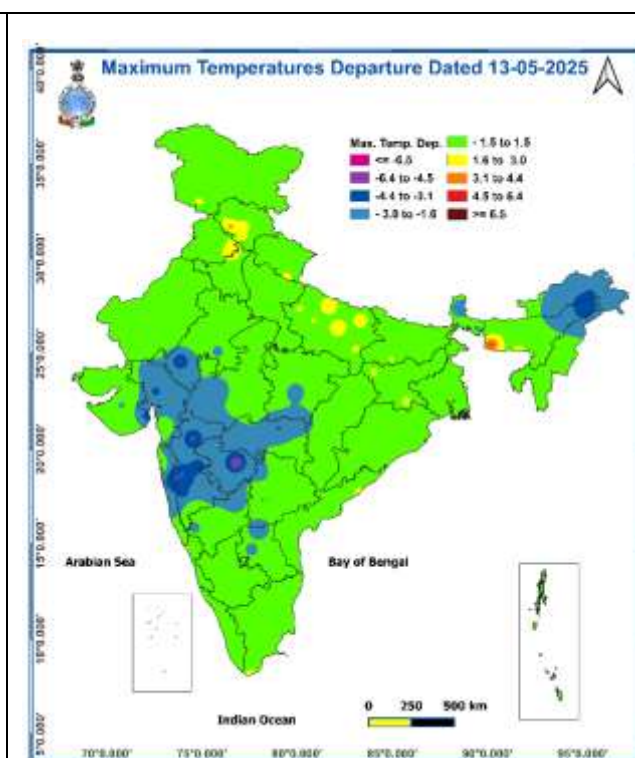
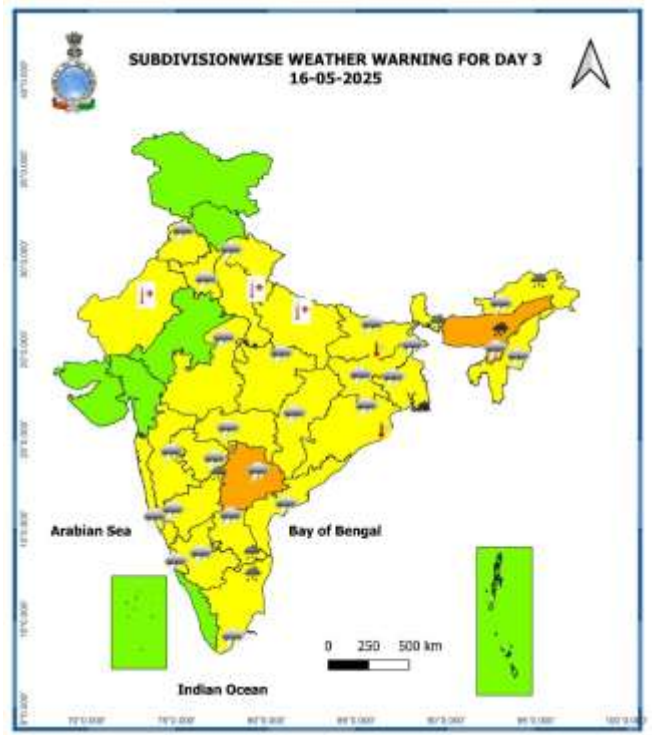
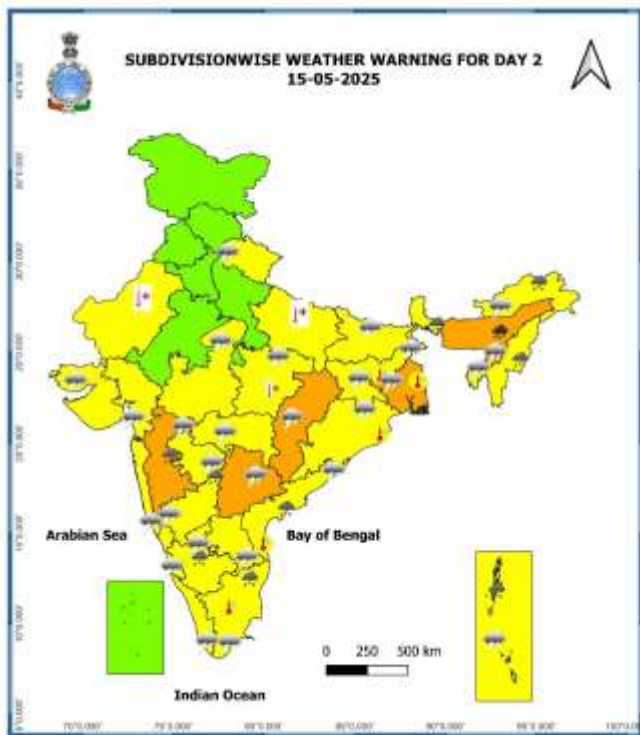
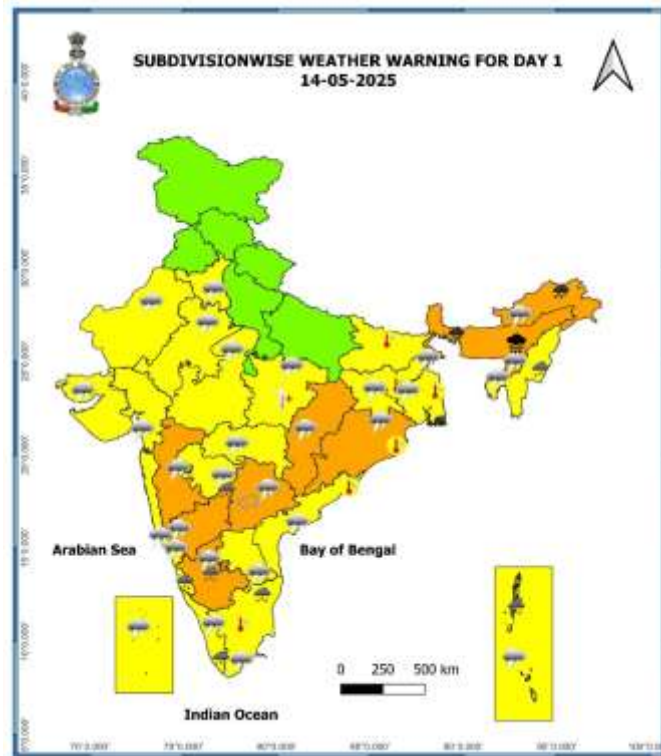


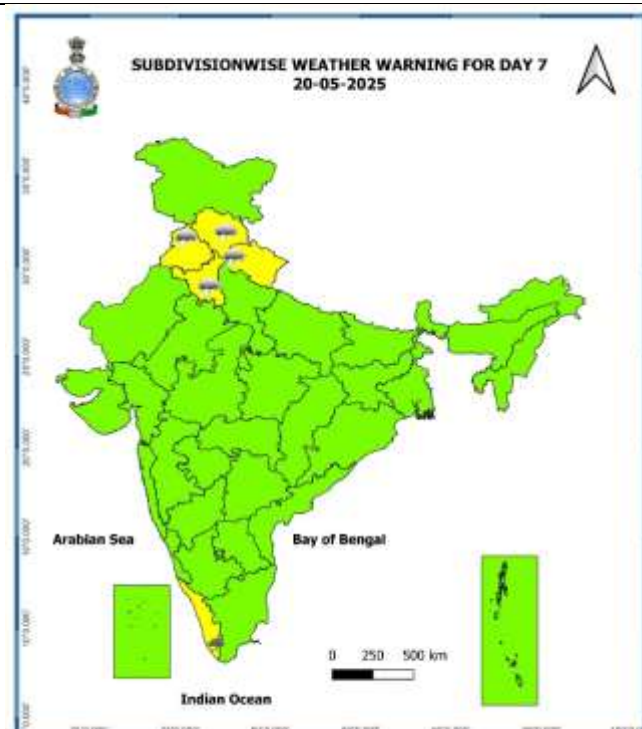
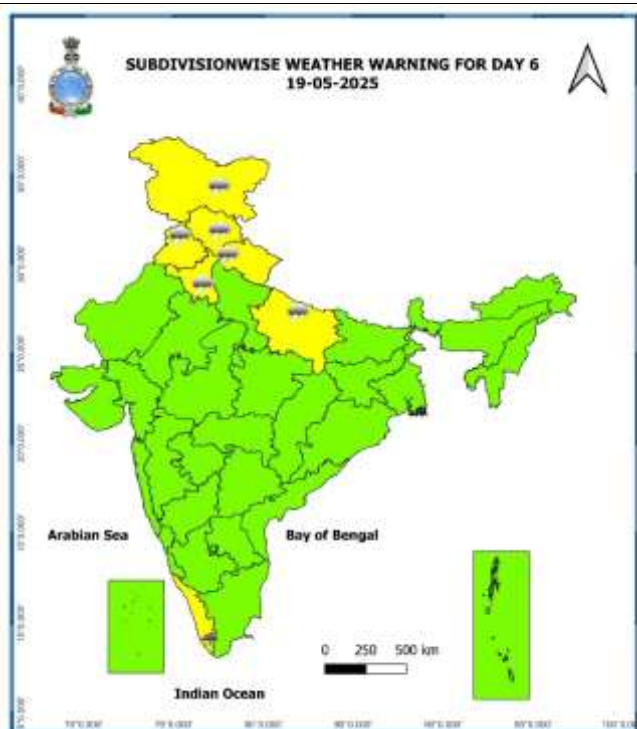
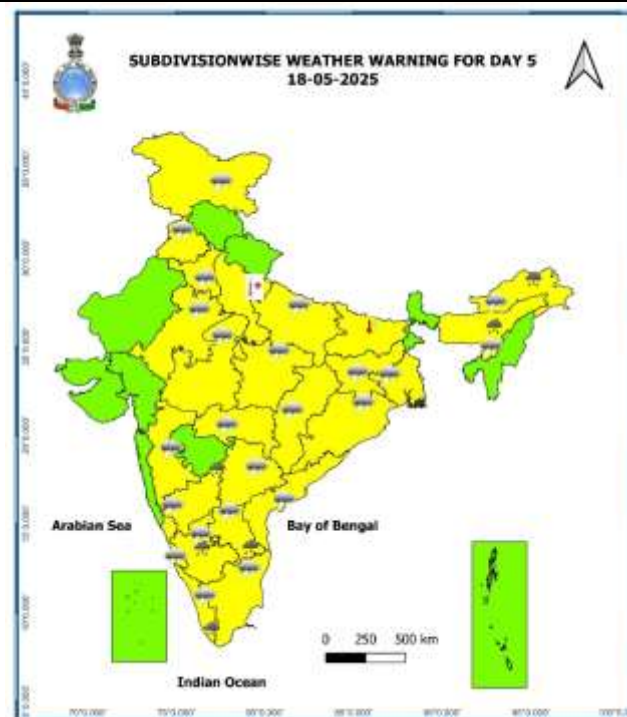
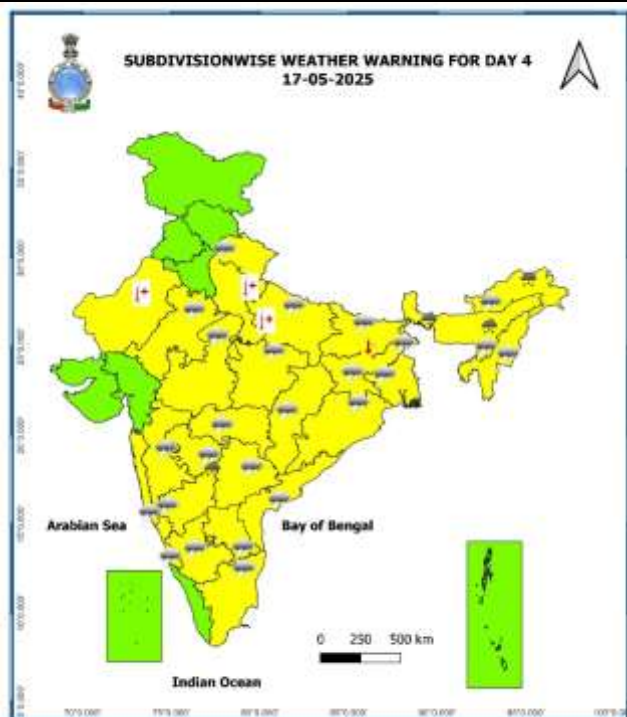
Fig. 2: Departure of Maximum Temperatures



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

- 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 14th to 17th May 2025

Past Weather:

There has been fall in minimum temperature up to 04°C and rise in maximum temperature up to 02°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 40 to 41°C and 21 to 24°C respectively. The minimum temperature was below normal up to 02 - 05°C and the maximum temperature was near normal over Delhi/NCR. Partly cloudy sky conditions with predominant surface wind from the northwest direction with wind speeds less than 18 kmph gusting to 45 kmph prevailed during the past 24 hours. Partly cloudy sky conditions with wind speed less than 10 kmph from the southwest direction prevailed over the region in the forenoon today.

Weather Forecast:

14.05.2025: Partly cloudy sky. Thundery development towards evening/night. Sustained surface winds (speed 15 – 25 kmph) occasionally gusting to 35 kmph. The maximum temperatures over Delhi are likely to be in the range of 40 to 42°C. The maximum temperature will be above normal up to 01 - 02°C. The predominant surface wind will likely be from the west direction with a wind speed of less than 25 kmph till evening. It would decrease becoming less than 16 kmph from the west direction during the night.

15.05.2025: Partly cloudy sky. Sustained surface winds (speed 15 – 25 kmph) occasionally gusting to 35 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 40 to 42°C and 24 to 26°C respectively. The minimum temperature will be near normal and the maximum temperature will be above normal up to 01 - 03 °C. The predominant surface wind will likely be from the northwest direction with a wind speed of 15-20 kmph during morning hours. The wind speed will gradually increase becoming 20-25 kmph from the northwest direction in the afternoon. It will decrease becoming less than 16 kmph from the northwest direction during evening and night.

16.05.2025: Partly cloudy sky. Possibility of very light rain/thunderstorm/lighting and gusty winds (speed 30-40 kmph) towards evening/night, temporarily reaching to 50 kmph during thunderstorm. The maximum and minimum temperatures over Delhi are likely to be in the range of 40 to 42°C and 26 to 28°C respectively. The minimum temperature will be above normal up to 01 - 03 °C and the maximum temperature will be above normal up to 01 - 03°C. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 20 kmph during the morning hours. The wind speed will gradually increase becoming 20-25 kmph from the northwest direction in the afternoon. It will decrease becoming less than 18 kmph from the northwest direction during evening and night.

17.05.2025: Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 39 to 41°C and 27 to 29°C respectively. The minimum temperature will be above normal up to 02 – 04°C, and the maximum temperature will be above normal up to 01 - 02°C. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 16 kmph during the morning hours. The wind speed will gradually increase becoming 18-20 kmph from the northwest direction in the afternoon. It will decrease becoming less than 12 kmph from the west 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 & Action Suggested due to very heavy rainfall over

- ✓ **Very heavy rainfall** over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim on 14th, Assam & Meghalaya on 15th & 16th; May.
- ✓ **Extremely heavy rainfall** at isolated places over Meghalaya on 14th 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 kutchha 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.

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

- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Gangetic West Bengal on 15th, Odisha, Interior Karnataka on 14th; Chhattisgarh, Madhya Maharashtra on 14th & 15th May. Telangana during 14th-16th May
- ✓ **Hailstorm** also likely at isolated places over Telangana on 14th 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 kutchha 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 in isolated pockets of West Uttar Pradesh during 14th-18th; East Uttar Pradesh, West Rajasthan during 15th-17th 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.

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

- In **North Eastern States, Andaman & Nicobar Islands, Sub Himalayan West Bengal & Sikkim, Madhya Maharashtra, Tamil Nadu, Kerala, Karnataka and Andhra Pradesh**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Telangana**, use hail nets and hail caps to prevent mechanical damage in vegetables and orchards due to the possibility of hailstorms.
- 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.
- To protect standing crops, vegetables and orchards from the adverse effects of heat waves and high temperatures, apply light and frequent irrigation in the evening.

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.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.
- 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.

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

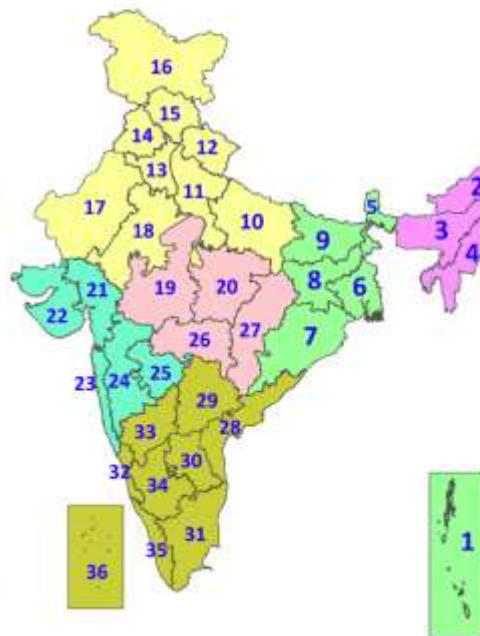
32. तटीय कर्नाटक

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 *

Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm *
Extremely Heavy: > 204.4 mm/cm *

Heat Wave

When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions

(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .

Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.

Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$.

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$.

Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

Severe Warm Night: When minimum temperature departure $> 6.4^{\circ}\text{C}$.

Cold Wave

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave: When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$

Cold Day

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions

Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres

Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)

Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.

Frost

Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)

Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-67 kmph

Very Severe: Wind speed > 67 kmph

Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre

Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)

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Hot and Humid: When maximum temperatures remain 3°C above normal along with the above normal relative humidity.