



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



Press Release

Date: 03rd June, 2025

Time of Issue: 1300 hours IST

Subject: i) Heavy to very heavy rainfall likely to continue over Northeastern states till next 2 days and decrease in intensity thereafter.

ii) Rainfall along with thunderstorm & gusty/squally winds likely to continue over northwest India during next 2 days.

iii) Heat wave conditions likely over Gangetic West Bengal on 3rd & 4th June and over Odisha during 3rd to 6th June 2025.

Southwest Monsoon: (Annexure I):

- ❖ The Northern Limit of Monsoon continues to pass through 17.0°N/55°E, 17.5°N/60°E, 18°N/65°E, 18.5°N/70°E, Mumbai, Ahilyanagar, Adilabad, Bhawanipatna, Puri, Sandhead Island, 23.5°N/89.5°E, Balurghat, 30°N/85°E.

Realised weather during past 24 hours till 0830 hours IST of today, the 03rd June, 2025 (Annexure II):

- ❖ **Heavy rainfall** recorded at isolated places over Arunachal Pradesh, Assam & Meghalaya, Tripura, Gujarat Region and East Rajasthan.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 70-100 kmph at isolated places over Bihar; with speed 40-70 kmph at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, Rajasthan, Tamilnadu Puducherry & Karaikal, Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Jharkhand, Assam & Meghalaya and Manipur.
- ❖ **Hailstorm** observed at isolated places over Himachal Pradesh, Uttarakhand.
- ❖ **Duststorm** observed at isolated places over Rajasthan.

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 now seen as a cyclonic circulation over Punjab & neighbourhood in lower tropospheric levels with a trough aloft in middle tropospheric level roughly along Long. 75°E to the north of Lat. 30°N.
- ❖ An upper air cyclonic circulation lies over Haryana and another over northwest Uttar Pradesh in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over east Bihar and a north-south trough runs roughly along Long. 92°E to the north of Lat. 22°N in lower tropospheric levels.
- ❖ Under the influence of these systems, the following weather is likely:

Northeast India:

- ✓ Light/moderate rainfall at most places likely to continue over northeast India during next 7 days with isolated heavy rainfall during 03rd-05th with isolated very heavy falls over Assam & Meghalaya on 03rd & 04th and Nagaland, Manipur, Mizoram & Tripura on 03rd June.

Northwest India:

- ✓ Light/moderate rainfall at many/some places accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** likely over likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi; light/moderate rainfall at some places over Uttar Pradesh, Rajasthan on 03rd & 04th June.

- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Himachal Pradesh on 03rd & 04th; Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh and Rajasthan on 03rd June.
- ✓ **Isolated heavy rainfall** also likely over Uttarakhand, Haryana, West Uttar Pradesh and Rajasthan on 03rd June.
- ✓ **Isolated hailstorm** likely over Himachal Pradesh on 03rd June.
- ✓ **Dust storm** also very likely at isolated places over West Rajasthan on 03rd June.

East & Central India:

- ✓ Light/moderate rainfall at most/many places likely to continue over Sub-Himalayan West Bengal & Sikkim during next 7 days with isolated heavy rainfall on 03rd & 04th June.
- ✓ Light/moderate rainfall at some places accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** likely over Madhya Pradesh, Vidarbha, Chhattisgarh during 03rd-07th; Bihar, West Bengal, Jharkhand on 03rd & 04th June.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Bihar, West Madhya Pradesh on 03rd & 04th and Sub-Himalayan West Bengal & Sikkim on 04th June.

South Peninsular India:

- ✓ Light/moderate rainfall at many places **over Kerala & Mahe, Coastal Karnataka** on 03rd & 04th June with isolated **heavy rainfall** over Kerala on 03rd & 04th and Coastal Karnataka on 03rd June.
- ✓ Light/moderate rainfall at some places accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph** over Coastal Andhra Pradesh, Telangana and Interior Karnataka during 03rd-05th June.

Maximum Temperature Forecast:

- ❖ Maximum Temperatures likely to fall by 2-3°C over Northwest India during next 2 days; gradual rise by 4-5°C during subsequent next 5 days.
- ❖ Maximum Temperatures likely to rise gradually by 2-3°C over East India during next 2 days and no large change thereafter.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

Heat wave and Hot & Humid warnings:

- ❖ **Heat wave conditions** are likely to prevail over Odisha during 03rd-06th and Gangetic West Bengal on 03rd & 04th June.
- ❖ **Hot & humid weather** is likely to prevail over Coastal Andhra Pradesh & Yanam during 03rd-05th; Odisha during 03rd-06th; Gangetic West Bengal, Tamilnadu Puducherry & Karaikal on 03rd & 04th June.

FISHERMEN WARNINGS:

(A) Fishermen are advised not to venture over many parts of central Arabian Sea adjoining northern parts of south Arabian sea along and off Somalia coast, over Lakshadweep area along and off Karnataka and Kerala coasts, over Comorin area adjoining Gulf of Mannar, over some parts of central and adjoining north Bay of Bengal on 3rd June; Along and off Somalia coasts and adjoining west central Arabian sea along and off Karnataka and Kerala coasts, off north Tamil Nadu coast, over few parts of central Bay of Bengal and adjoining areas on 04th June; Along and off Somalia coast and adjoining sea areas, some western parts of westcentral Arabian Sea, off north Tamil Nadu and south Andhra Pradesh coasts on 05th June .

(B) Fishermen are advised not to venture over a few parts of southwest Arabian Sea adjoining and areas, along and off Somalia coast on 06th & 07th June.

iv. Weather conditions and forecast over Delhi/NCR during 03rd June to 06th June, 2025 (Annexure VI)

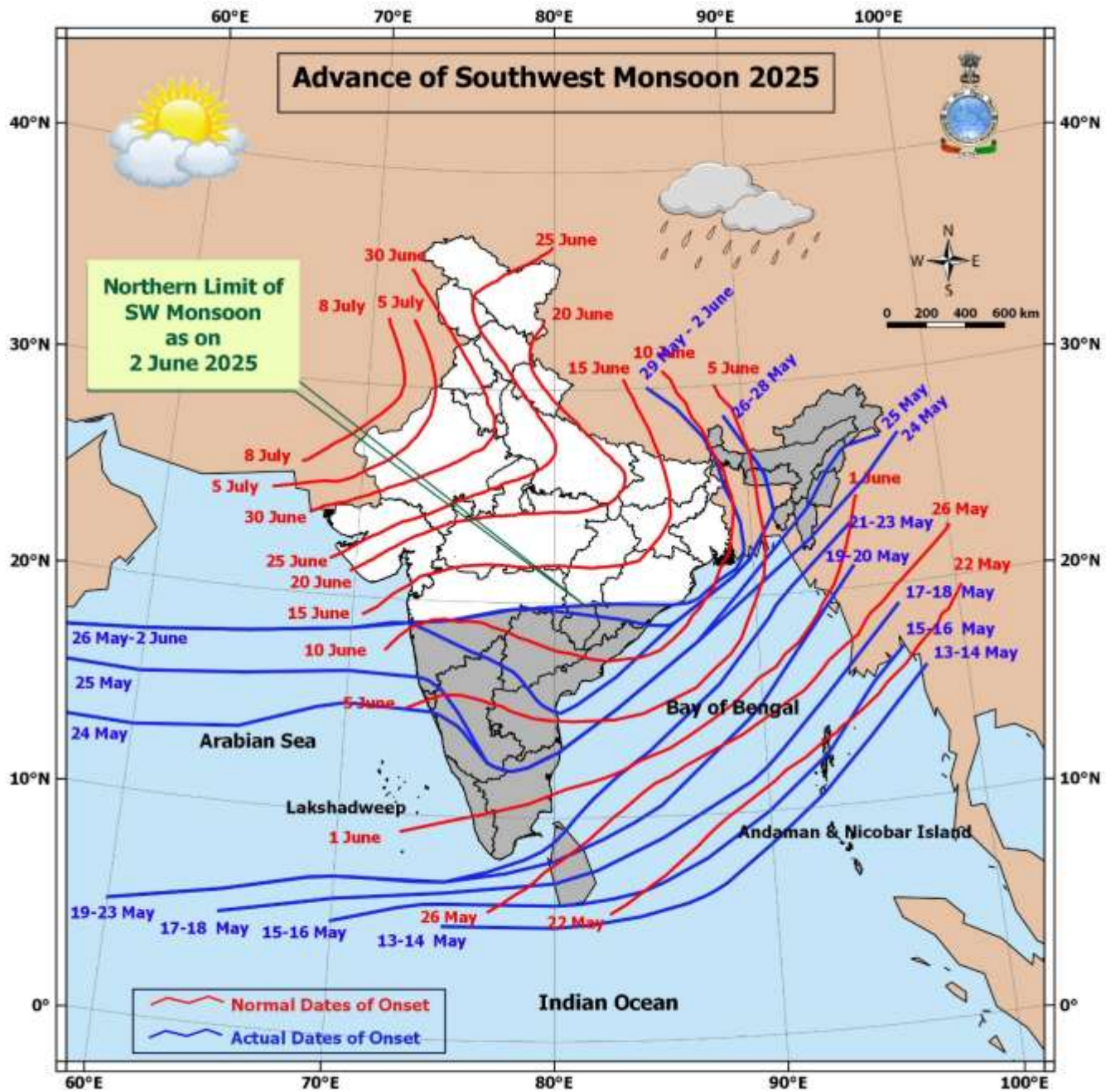
For more details, kindly refer National Weather Bulletin:

https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

For Depression Bulletins refer:

https://rsmcnewdelhi.imd.gov.in/uploads/archive/1/1_fba0b7_02.National%20Bulletin%20No%2002-24May2025_0830IST.pdf



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

- ❖ **Assam & Meghalaya:** Cherrapunji (dist East Khasi Hills) 11; Cherrapunji(rkm) (dist East Khasi Hills) 9; Mawsynram (dist East Khasi Hills) 8; Chauldhowaghat (dist Lakhimpur), Ranganadi Nt Xing (dist Lakhimpur), Khliehriat (dist East Jaintia Hills) 7 Each;
- ❖ **Arunachal Pradesh:** Longding-11;
- ❖ **East Rajasthan:** Ramganjmandi SR (dist Kota), Jhalarapatan SR (dist Jhalawar) 8 Each;
- ❖ **Gujarat Region:** V.vidyanagar SR (dist Anand), Anand (dist Anand), Petlad (dist Anand) 7 Each;
- ❖ **Tripura:** Arundhutinagar (dist West Tripura), Agartala AP (dist West Tripura), Lembuchhera (dist West Tripura), Met Agartala AWS (dist West Tripura), Gandachara AWS (dist Dhalai) 7 Each.

Realised Gusty Winds (KMPH) During Past 24hours Ending At 0300 UTC Of Today I.E. 03.06.2025:

- ❖ **Bihar:** Madhepura (87); Agwanpur (63); Pusa (43); Ziradei (41); East Champaran (39);
- ❖ **Punjab:** Sangrur =63; Salern = 61; Fatehgarh Sahib = 57; Patiala = 52; Faridkot = 51; Rupnagar = 48; Pathankot = 43;
- ❖ **Himachal Pradesh:** Neri-61, Bilaspur& Seobagh-57, Dhaulakuana, Kukumseri &Tabo-43, Kotkhai-37;
- ❖ **Uttarakhand:** Jollygrant 61;
- ❖ **East Uttar Pradesh:** Fursatganj(Ap)-59, Fursatganj(Aws)-54, Sultanpur(Aws)-52, Prayagraj(Iaf)-43, Varanasi(Ap)-43, Kanpur(Iaf)-43, Ayoodhya(Amfu)-43, Hardoi(Aws)-39, Mirzapur(Aws)-39;
- ❖ **West Uttar Pradesh:** Agra(Iaf)-57, Agra(Aws)-48;
- ❖ **Gujarat Region:** Annad-Afmu Aws 56 Kmph;
- ❖ **East Rajasthan:** Jaipur(55), Mkota(40);
- ❖ **Jharkhand:** Pakur (52); Kodarma (44); Chatra, Kiriburu (39); Godda (37); Jamtara (35); Garhwa (30);
- ❖ **Haryana:** Hathnikund Beraj = 51; Kaul = 50; Kurukshetra = 50; Pandu Pindara = 50; Karnal = 44, Chandigarh =39;
- ❖ **Jammu-Kashmir:** Chatha_Amfu=50, Kathua_Kvk=48,Kupwara=41;
- ❖ **Gangetic West Bengal:** Sonarpur (48); Berhampore (46); Purulia (41); Burdwan (39); Canning (37); Durgapur (35); Dum Dum, Alipore, Raidighi (33); Digha (31); Gangasagar (30);
- ❖ **Saurashtra & Kutch:** Kandla (Kutch) 48 Kmph;
- ❖ **Madhya Maharashtra:** Nashik (Kalwan) - 44 Kmph, Nashik (Vilholi) - 44 Kmph;
- ❖ **Andaman & Nicobar Islands:** Sri Vijayapuram (40);
- ❖ **West Rajasthan:** Bikaner(40);

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

- ❖ Yesterday, Maximum Temperatures were in the range of 38-42°C in some parts of East Uttar Pradesh, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Odisha, Jharkhand, Gangetic West Bengal, Punjab, West Rajasthan, Madhya Pradesh; in isolated parts of Gujarat state, Vidarbha, Bihar, West Uttar Pradesh, East Rajasthan; in the range 33-38°C in most parts of Chhattisgarh, Rayalaseema; in many parts of Haryana-Chandigarh-Delhi; in some parts of Marathwada, Konkan & Goa; in isolated parts of Himachal Pradesh, Sub-Himalayan West Bengal, Madhya Maharashtra, Kerala & Mahe, Jammu Division, Uttarakhand and they were less than 33°C elsewhere over remaining parts of the country. **Yesterday, the highest maximum temperature of 44.2°C is reported at Banda (East Uttar Pradesh).**
- ❖ Yesterday, Maximum Temperatures were markedly above normal ($> 5.1^{\circ}\text{C}$) at isolated places over Tamil Nadu, Puducherry & Karaikal. appreciably above normal (3.1°C to 5.0°C) at few places over Arunachal Pradesh, Gangetic West Bengal and Odisha; at isolated places over Assam & Meghalaya and Himachal Pradesh. above normal (1.6°C to 3.0°C) at few places over Sub Himalayan West Bengal & Sikkim; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Bihar, East Madhya Pradesh, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam and Telangana. Near normal (-1.5°C to 1.5°C) at many places over Andaman & Nicobar Islands, West Uttar Pradesh and Kerala & Mahe; at most places over East Uttar Pradesh, Konkan & Goa and Lakshadweep; at few places over Uttarakhand, West Rajasthan, Gujarat Region and Rayalaseema; at isolated places over Jharkhand and Punjab.

Fig.1: Maximum Temperatures

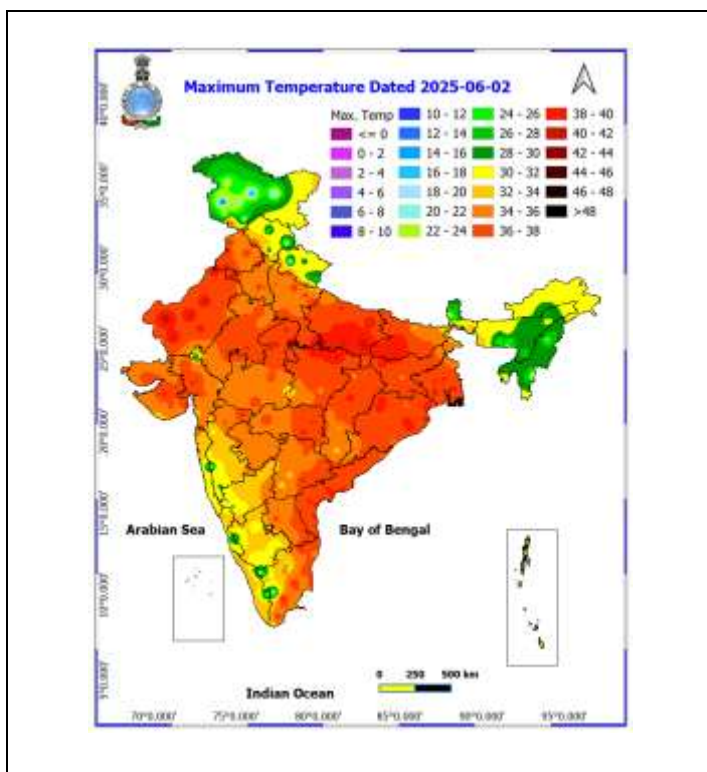


Fig.2: Departure of Maximum Temperatures

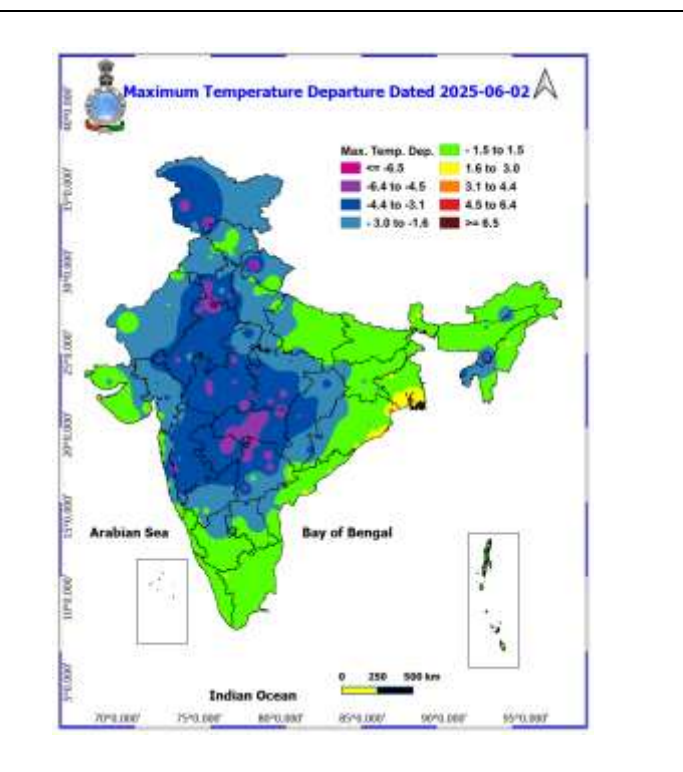
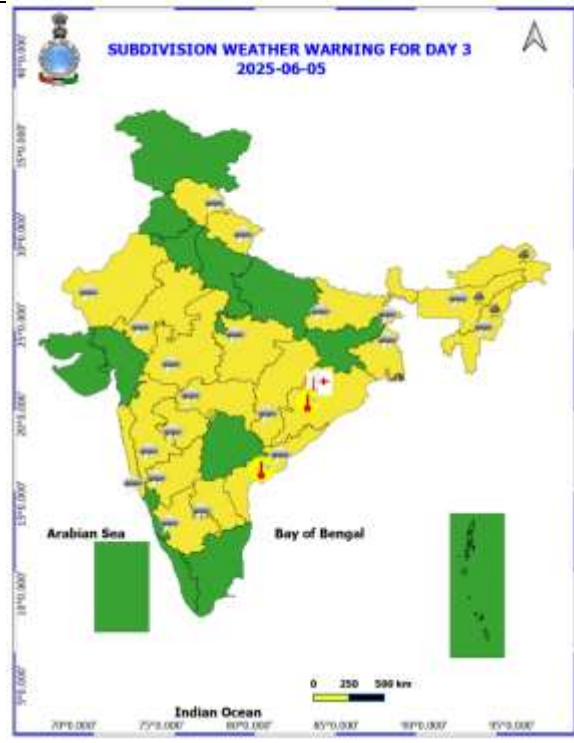
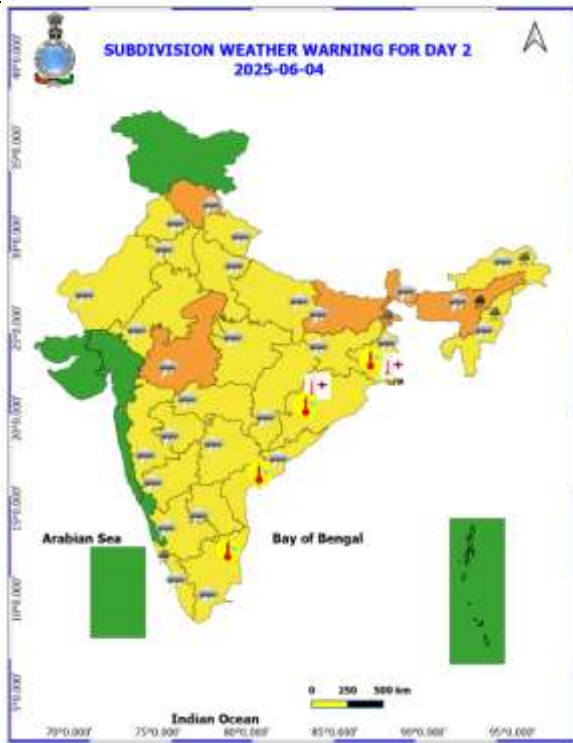
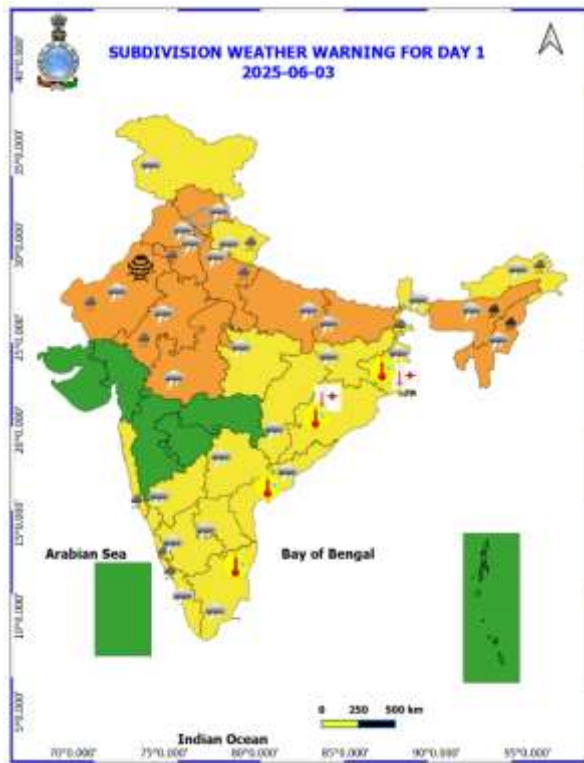
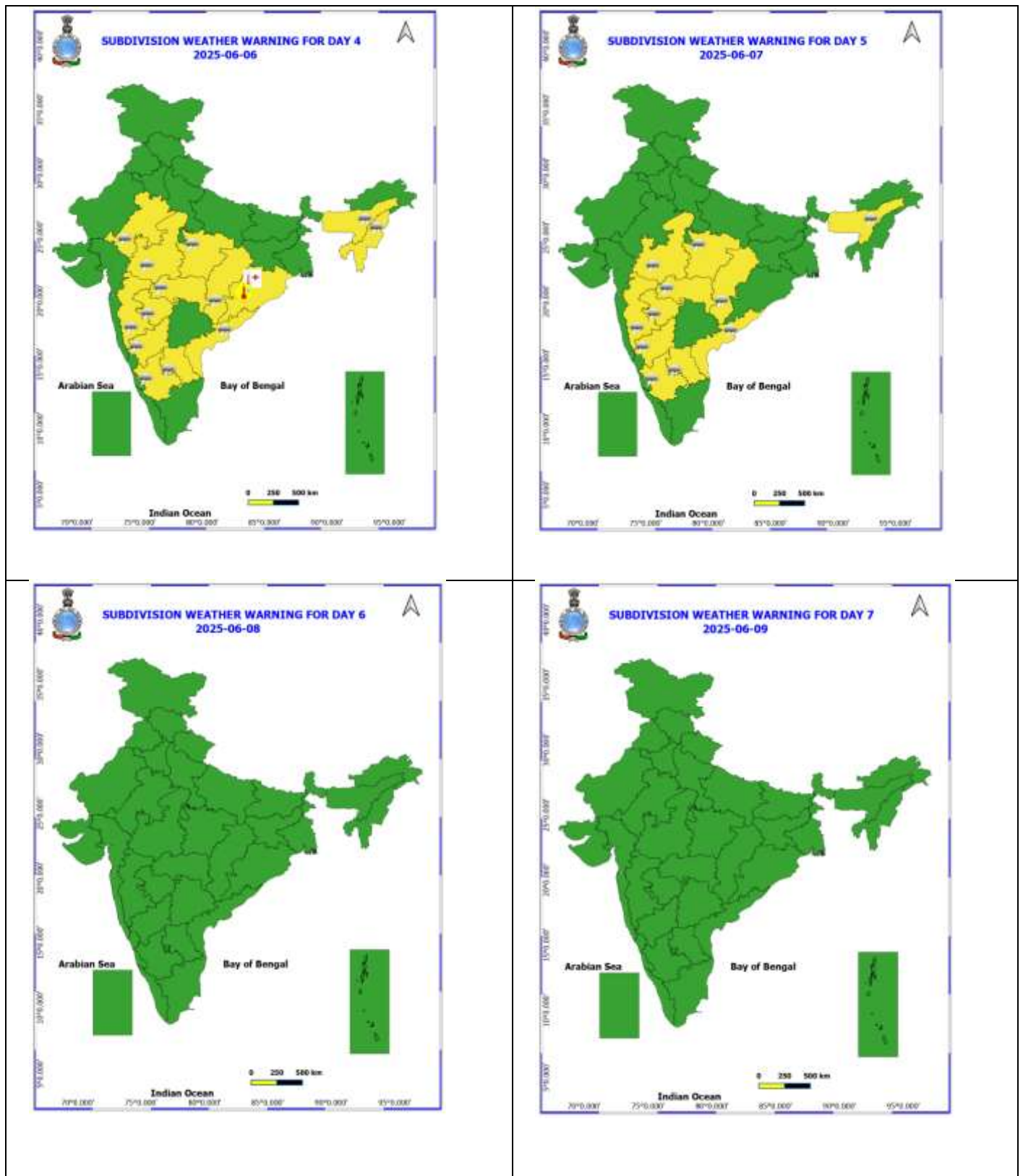


Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	3- Jun	4- Jun	5- Jun	6- Jun	7- Jun	8- Jun	9- Jun
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WFS	WFS	FWS	SCT	SCT	SCT	SCT
2	ARUNACHAL PRADESH	WFS	FWS	FWS	FWS	FWS	FWS	FWS
3	ASSAM & MEHGHALAYA	WFS	WFS	FWS	FWS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

- As the lead period increases forecast accuracy decreases.





- 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 districtwise MultiHazard weather warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 03rd to 06th June 2025

Past Weather:

There has been a rise in the minimum temperature upto 2°C and fall in the maximum temperature upto 2°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi were around 35 to 36°C and 22 to 25° respectively. The minimum temperature was below normal up to 2 to 4°C and the maximum temperature was below normal up to 4 to 5°C. Partly cloudy sky conditions with predominant surface wind from the southwest/southeast direction with wind speeds up to 16 kmph gusting to 45 kmph prevailed during the past 24 hours. Partly cloudy sky conditions with wind speed less than 14 kmph from the variable direction prevailed over the region in the forenoon today.

Weather Forecast:

03.06.2025: Partly cloudy sky. Very light to light rain accompanied by thunderstorm and gusty winds (speed 40 – 50 kmph) temporarily reaching 60 kmph during thunderstorm with dust rising winds towards afternoon/evening. The maximum temperatures over Delhi are likely to be in the range of 35 to 37°C. The maximum temperature will be below normal up to 3 to 5°C. The predominant surface wind will likely be from the southwest direction with a wind speed of less than 25 kmph in the afternoon. The wind speed will gradually decrease becoming 10-15 kmph from the southwest direction during evening and night.

04.06.2025: Partly cloudy sky. Very light to light rain accompanied by thunderstorm and gusty winds (speed 40 – 50 kmph) temporarily reaching 60 kmph during thunderstorm with dust rising winds. The maximum and minimum temperatures over Delhi are likely to be in the range of 35 to 37°C and 22 to 24°C respectively. The minimum temperature will be below normal up to 2 - 4°C and the maximum temperature will be below normal up to 3 to 5°C. The predominant surface wind will likely be from the southwest direction with a wind speed of less than 15 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 20 kmph from the southeast direction during evening and night.

05.06.2025: Partly cloudy sky. Very light to light rain accompanied by thunderstorm and gusty winds (speed 30 – 40 kmph) temporarily reaching 50 kmph during thunderstorm with dust rising winds. The maximum and minimum temperatures over Delhi are likely to be in the range of 37 to 39°C and 22 to 24°C respectively. The minimum temperature will be below normal up to 3 - 5°C and the maximum temperature will be below normal up to 1 - 3°C. The predominant surface wind will likely be from the southwest direction with a wind speed of less than 12 kmph during the morning hours. The wind speed will gradually increase becoming less than 18 kmph from the northwest direction in the afternoon. It will increase to less than 25 kmph from the northwest direction during the evening and night.

06.06.2025: Partly cloudy sky. 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 up to 1 - 2°C, and the maximum temperature will be below normal up to 1 - 2°C. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 15 kmph during the morning hours. The wind speed will gradually increase becoming less than 25 kmph from the northwest direction in the afternoon. It will decrease to less than 20 kmph from the northwest direction during the evening and night.

Impact expected and Action Suggested due to thunderstorm with lightning/gusty winds:

- Be cautious and take precautionary measures, though there is the likelihood of thunderstorm/lightning and gusty winds (speed 40 – 50 kmph) temporarily reaching 60 kmph during thunderstorm with dust rising surface winds.
- Breaking of tree branches, uprooting of large avenue trees, Large dead limbs blown from trees, Damage to standing crops, Minor to major damage to power and communication lines due to breaking of branches, Partial damage to vulnerable structures due to strong winds, Loose objects may fly.
- 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 & Action Suggested due to heavy to very heavy rainfall over Assam & Meghalaya on 03rd & 04th and Nagaland, Manipur, Mizoram & Tripura on 03rd June. (For Orange colour warning areas)

Impact Expected

- ❖ Localized Flooding of roads, water logging in low lying areas of the above region.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Minor damage to kutchra 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 over Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph over likely over Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Rajasthan on 03rd, Uttarakhand on 02nd and West Madhya Pradesh, Bihar, Himachal Pradesh on 03rd & 04th and Sub-Himalayan West Bengal & Sikkim on 04th June.

Impact expected:

- Minor to Major damage to banana and papaya trees.
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutchra 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.

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

- Postpone transplanting of rice in **Arunachal Pradesh**; sowing of *Sali* rice and vegetables in **Assam**; sowing of finger millet, maize and black gram in **Manipur** and harvesting of rice in **Tripura**.
- Drain out excess water and ensure proper drainage in the rice nursery beds, fields of soybean, chilli, okra and other vegetables and in **Arunachal Pradesh**; rice, sesame, maize, sugarcane, ginger and turmeric in **Assam**; bottle gourd and French bean in **Meghalaya**; maize and upland rice in **Mizoram**; pre-kharif rice, soybean, finger millet, maize, black gram, vegetables and orchards in **Manipur**; cabbage, maize and orchards in **Nagaland**; rice fields, and *Aus* rice nurseries and vegetables.
- In **Himachal Pradesh**, 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 and propping to horticultural crops and staking to vegetables to avoid lodging.
- In **Gangetic West Bengal** and **Odisha**, apply light and frequent irrigation in the evening to protect standing crops, vegetables and orchards from the adverse effects of heat waves and high temperatures.

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

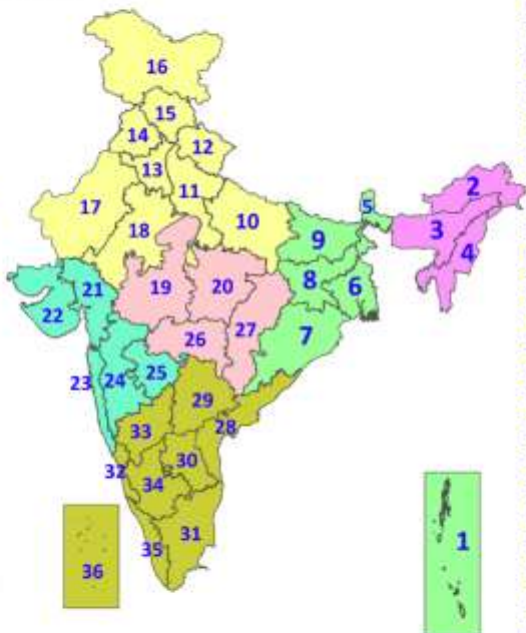
Legends & abbreviations:

- ❖ **Heavy Rain:** 64.5-115.5mm; **Very Heavy Rain:** 115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **:** 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

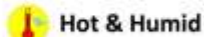
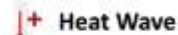
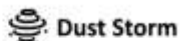
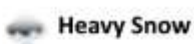
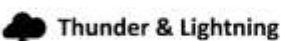
1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. 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)



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 62-87 kmph

Very Severe: Wind speed > 87 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)

* 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)

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