



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 04th June, 2025

Time of Issue: 1330 hours IST

Subject: i) Heavy to very heavy rainfall likely over Northeastern states with extremely heavy falls over Meghalaya on today, the 04th June, 2025 and decrease in intensity thereafter.

ii) Rainfall along with thunderstorm & gusty winds likely to continue over northwest India today, the 04th 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 04th June, 2025 (Annexure II):

- ❖ **Heavy to very heavy rainfall** recorded at isolated places over Sub-Himalayan West Bengal; **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Gangetic West Bengal, Gujarat Region, Konkan, West Madhya Pradesh and Rajasthan.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 60-80 kmph at isolated places over east Assam; with speed 30-60 kmph at isolated places over West Bengal & Sikkim, Bihar, Jharkhand, Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Tamilnadu Puducherry & Karaikal, interior Karnataka, Rayalaseema and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Hailstorm** observed at isolated places over Jammu and Uttarakhand.

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):

- ❖ An upper air cyclonic circulation lies over South Punjab & neighbourhood in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over North Bangladesh and another over Northeast Assam & neighbourhood in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over South Gujarat & neighbourhood in lower tropospheric levels.
- ❖ A north-south trough runs roughly along Long. 87°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 on 04th & 05th with **isolated extremely heavy falls over Meghalaya on 04th 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 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 04th-08th; Bihar, Gangetic West Bengal, Jharkhand on 04th & 05th June with **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Bihar on 04th June.
- ✓ Isolated heavy rainfall likely over Bihar on 04th June.

Northwest India:

- ✓ Light/moderate rainfall at some/many places accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** 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 04th June.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Himachal Pradesh on 04th June.
- ✓ **Dust raising winds** likely over West Rajasthan during 07th-09th June.

South Peninsular India:

- ✓ Light/moderate rainfall at many places over Kerala & Mahe, Coastal Karnataka on 04th June **with isolated heavy rainfall** over Kerala on 04th June.
- ✓ Light/moderate rainfall at some places accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph** over Coastal Andhra Pradesh, Rayalaseema and Interior Karnataka during 04th-08th June.

Maximum Temperature Forecast:

- ❖ No significant change in maximum Temperatures likely over Northwest India during next 24 hours; gradual rise by 4-6°C during subsequent next 3 days and no significant change thereafter.
- ❖ No significant change in maximum Temperatures likely over Central India during next 24 hours; gradual rise by 2-4°C during subsequent next 3 days and no significant change thereafter.
- ❖ Maximum Temperatures likely to fall by 2-3°C over East India during next 2 days and gradual rise by about 2°C 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 on 05th & 06th and West Rajasthan during 07th-09th June.
- ❖ **Hot & humid weather** is likely to prevail over Coastal Andhra Pradesh & Yanam and Odisha on 04th June.

FISHERMEN WARNINGS:

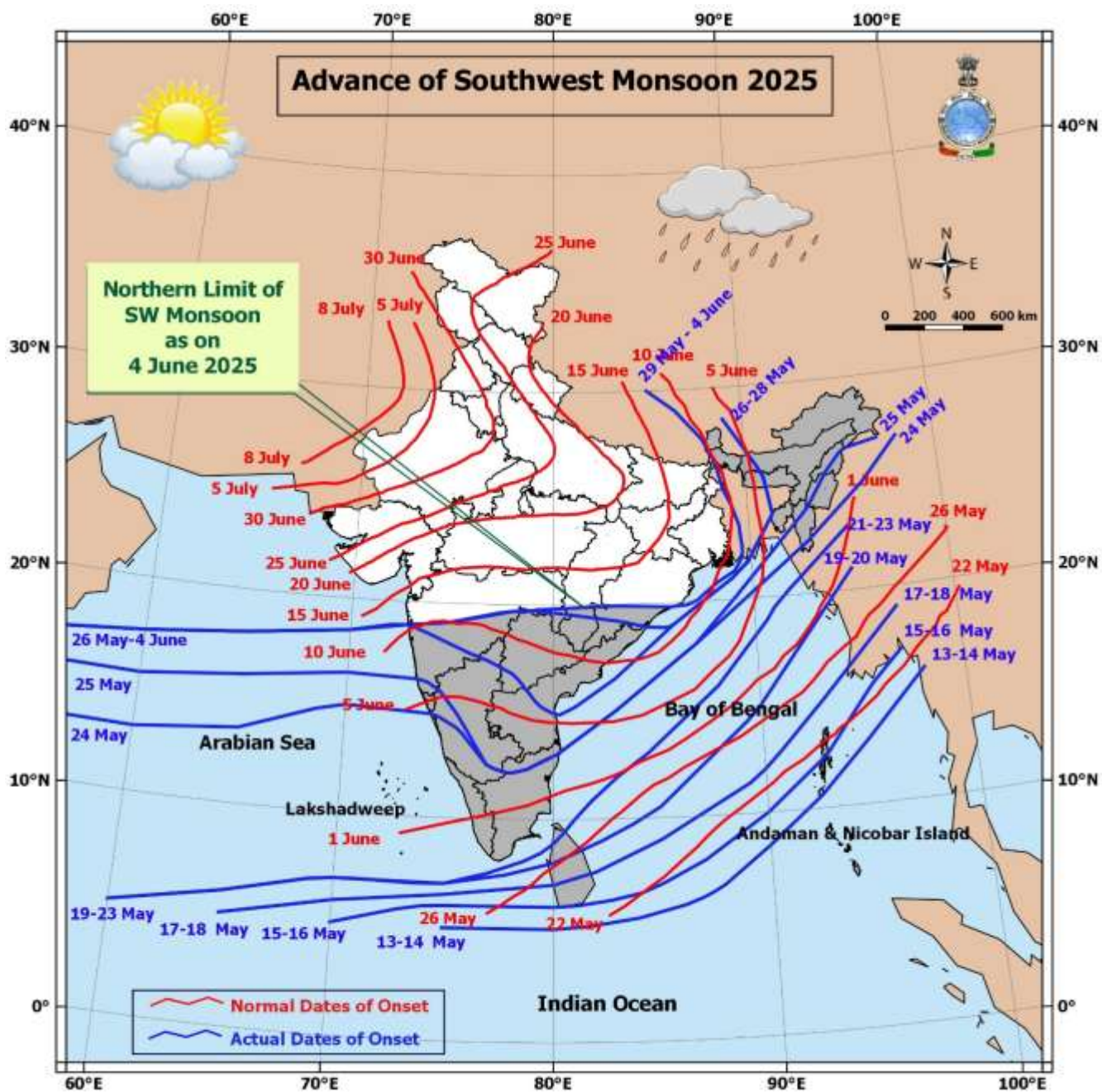
- (A) Fishermen are advised not to venture over Lakshadweep area along and off Karnataka and Kerala coasts on 04th June.
- (B) Fishermen are advised not to venture over some parts of west central Arabian sea on 04th & 05th June.
- (C) Along and off Somalia coast and adjoining sea areas during 04th-08th June.
- (D) Fishermen are advised not to venture off north Tamil Nadu coast and adjoining south Andhra Pradesh coasts on 05th June.

ii. Weather conditions and forecast over Delhi/NCR during 04th June to 07th 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>



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:**

- ❖ **Sub Himalayan West Bengal & Sikkim:** Gairkata Tea Estate (dist Jalpaiguri) 18; Cooch Behar (dist Cooch Behar) 14; Amfu Pundibari (dist Cooch Behar), Sankos Tea Estate (dist Alipurduar) 12 Each; Alipurduar PTO (dist Alipurduar), Ghughumari (dist Cooch Behar), Dhupguri (dist Jalpaiguri) 11 Each; Mathabhanga (dist Cooch Behar), Toorsa Tea Garden (dist Alipurduar) 10 Each; Newlands Tea Garden (dist Alipurduar) 9; Majherdabri Tea Garden (dist Alipurduar) 8; Falakata (dist Alipurduar), Patkapara Tea Estate (dist Alipurduar) 7 Each;
- ❖ **Assam & Meghalaya:** Dhubri CWC (dist Dhubri), Bahalpur (dist Dhubri) 9 Each; Kajolgaon AWS (dist Chirang) 8; Kokrajhar (dist Kokrajhar), Chauldhowaghat (dist Lakhimpur), N.lakhimpur/Lilabari (dist Lakhimpur), Lakhipur ARG (dist Cachar), Chouldhuwaghat ARG (dist Lakhimpur) 7 Each;
- ❖ **West Rajasthan:** Parbatsar (dist Nagaur) 8;
- ❖ **Gangetic West Bengal:** Mo Saltlake (dist North 24 Parganas) 8; Bankura(CWC) (dist Bankura) 7;
- ❖ **West Madhya Pradesh:** Mandsaur-8;
- ❖ **Konkan & Goa:** Thane (dist Thane) 7;
- ❖ **Gujarat Region:** Idar (dist Sabarkantha) 7;
- ❖ **Arunachal Pradesh:** Naharlagun AWS (dist Papumpara) 7.

Realised Gusty Winds (KMPH) During Past 24hours Ending At 0300 UTC Of Today I.E. 04.06.2025:

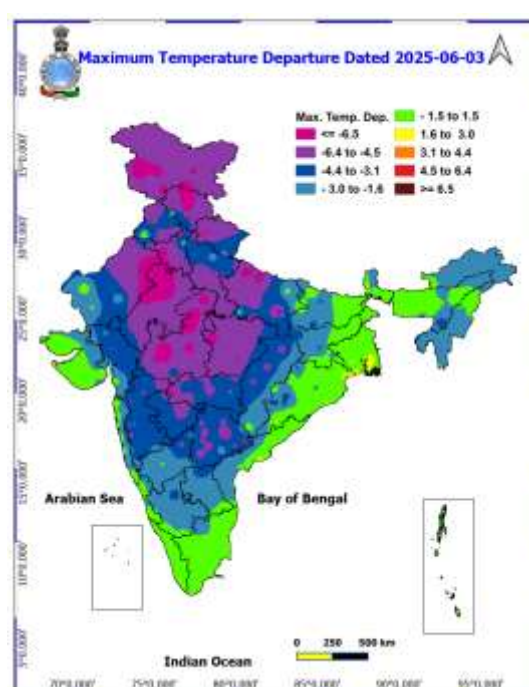
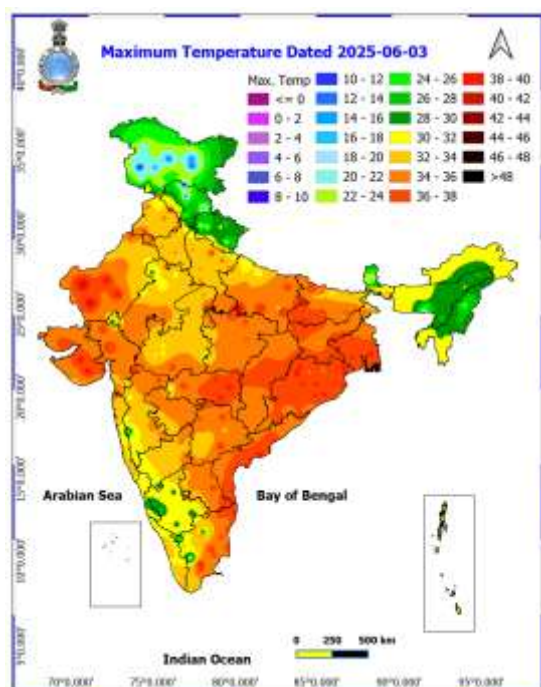
- ❖ **Assam & Meghalaya:** Margherita 76, Chirang 39;
- ❖ **Punjab:** Sangrur 74, Moga 74, Faridkot 72, Firozpur 54, Jalandhar 52, Salern 52, Fazilka 52, Patiala 50, Ropar 48, Hoshiarpur 48, Fatehgarh Sahib 46, Sri Anandpur Sahib 44;
- ❖ **Himachal Pradesh:** Neri 67, Bilaspur 57, Dhaula Kuan 44, Kukumseri 43, Seobagh 37;
- ❖ **Jharkhand:** Bokaro 65; Jamtara 52; Pakura, Simdega 41; Khunti, Ranchi 39; Hazaribagh 35; Palamu 33; Kiriburu 31; Kodarma, Ramgarh, Simdega 30;
- ❖ **West Madhya Pradesh:** Bhopal 61;
- ❖ **West Uttar Pradesh:** Sambhal(AWS) 59, Bareilly (AWS) 44;
- ❖ **East Madhya Pradesh:** Rewa 57;
- ❖ **Gangetic West Bengal:** Nimpith 57; Sonarpur 54; Canning, Raidighi 48; Uluberia 46; Burdwan, Amta, Digha 41; Alipore 38; Dum Dum 35; Purulia 30;
- ❖ **Haryana:** Jind 52, Karnal 52, Panipat 46, Sonapat 37;
- ❖ **Madhya Maharashtra:** Nashik (Vilholi) 48, Nashik (Kalwan) 52, Jalgaon 48;
- ❖ **Uttarakhand:** (AMS) Jollygrant 46, (AWS) Champawat 46, Pithoragarh_KVK 46, Jollygrant 44, Maldevta 39, Th_Kosiyakutoli 37, Pantnagar_AMFU 37, Roorkee_ AMFU 35, Nainital (Jeolikot)_ KVK 33, Jaspur 33, Chaubatia_Ranikhet 31, Rani_Chawri 31;
- ❖ **Marathwada:** Jalna 44, Parbhani 44;
- ❖ **Bihar:** Aurangabad 43; Bodhgaya 39; Arwal 37; Dumaraon, Rajgir, Bikramganj 35; Agwanpur, Sheikhpura, Ziradei 31; Arrabari 30;
- ❖ **Konkan:** Raigad (IIG_Alibag) - 43, Mumbai (Santa Cruz) 39;
- ❖ **Sub-Himalaya West Bengal & Sikkim:** Dhupguri 41, Jalpaiguri 33;
- ❖ **Vidarbha:** Yavatmal 41;
- ❖ **Odisha:** Ranital 41; Angul, Cuttack, Kendrapara, Mayurbhanj 35; Jagatsinghpur 33; Rourkela 31;
- ❖ **Arunachal Pradesh:** Kalaktang (West Kameng) 35;
- ❖ **Mizoram:** Aizawl 35;
- ❖ **Andaman & Nicobar Islands:** Sri Vijayapuram 32; Ferrargunj 31;

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 Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal; in isolated parts of Uttar Pradesh, West Rajasthan, Gujarat state; in the range 33-38°C in many parts of Bihar, East Madhya Pradesh, Odisha; in some parts of Punjab, Haryana-Chandigarh-Delhi, Vidarbha, Rayalaseema, Gangetic West Bengal, Jharkhand, Chhattisgarh; in isolated parts of Marathwada, Telangana, Konkan & Goa, North Interior Karnataka, East Rajasthan and they were less than 33°C elsewhere over remaining parts of the country. Yesterday, the highest maximum temperature of 42.6°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 isolated places over Assam & Meghalaya, Gangetic West Bengal and Odisha; above normal (1.6°C to 3.0°C) at few places over Lakshadweep; at isolated places over Sub Himalayan West Bengal & Sikkim, East Uttar Pradesh, West Uttar Pradesh, Saurashtra & Kutch and Coastal Andhra Pradesh & Yanam and near normal (-1.5°C to 1.5°C) at many places over Kerala & Mahe; at most places over Andaman & Nicobar Islands, Arunachal Pradesh, Konkan & Goa and Coastal Karnataka; at few places over Bihar, West Rajasthan, East Madhya Pradesh and Gujarat Region; at isolated places over Himachal Pradesh, Rayalaseema and North Interior Karnataka.

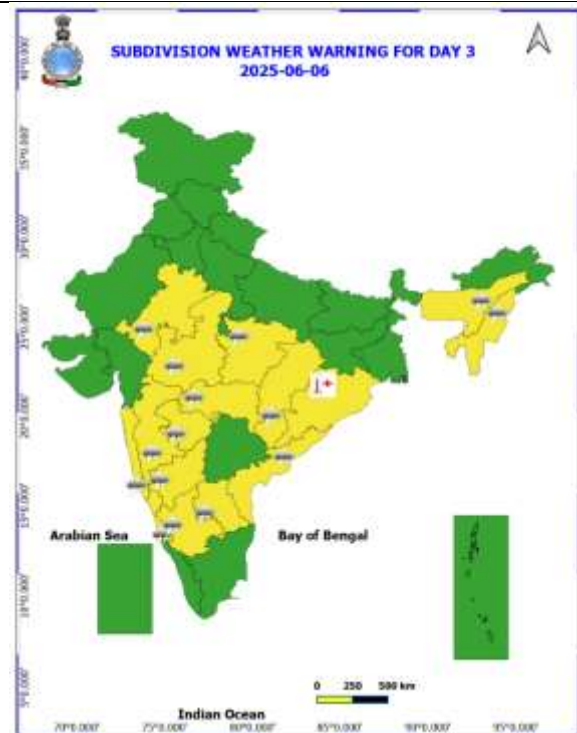
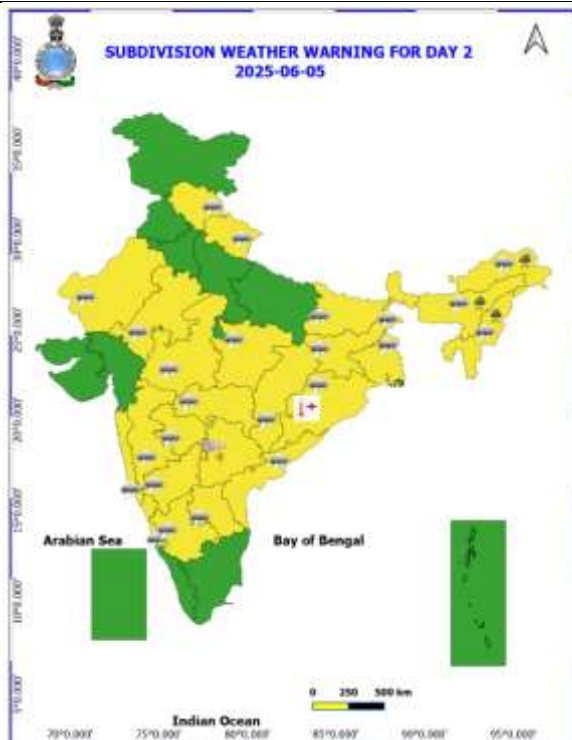
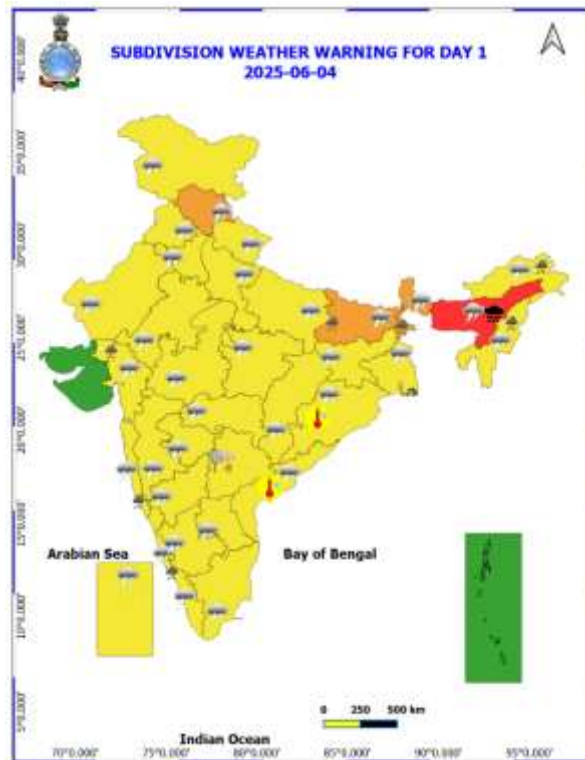
Fig.1: Maximum Temperatures

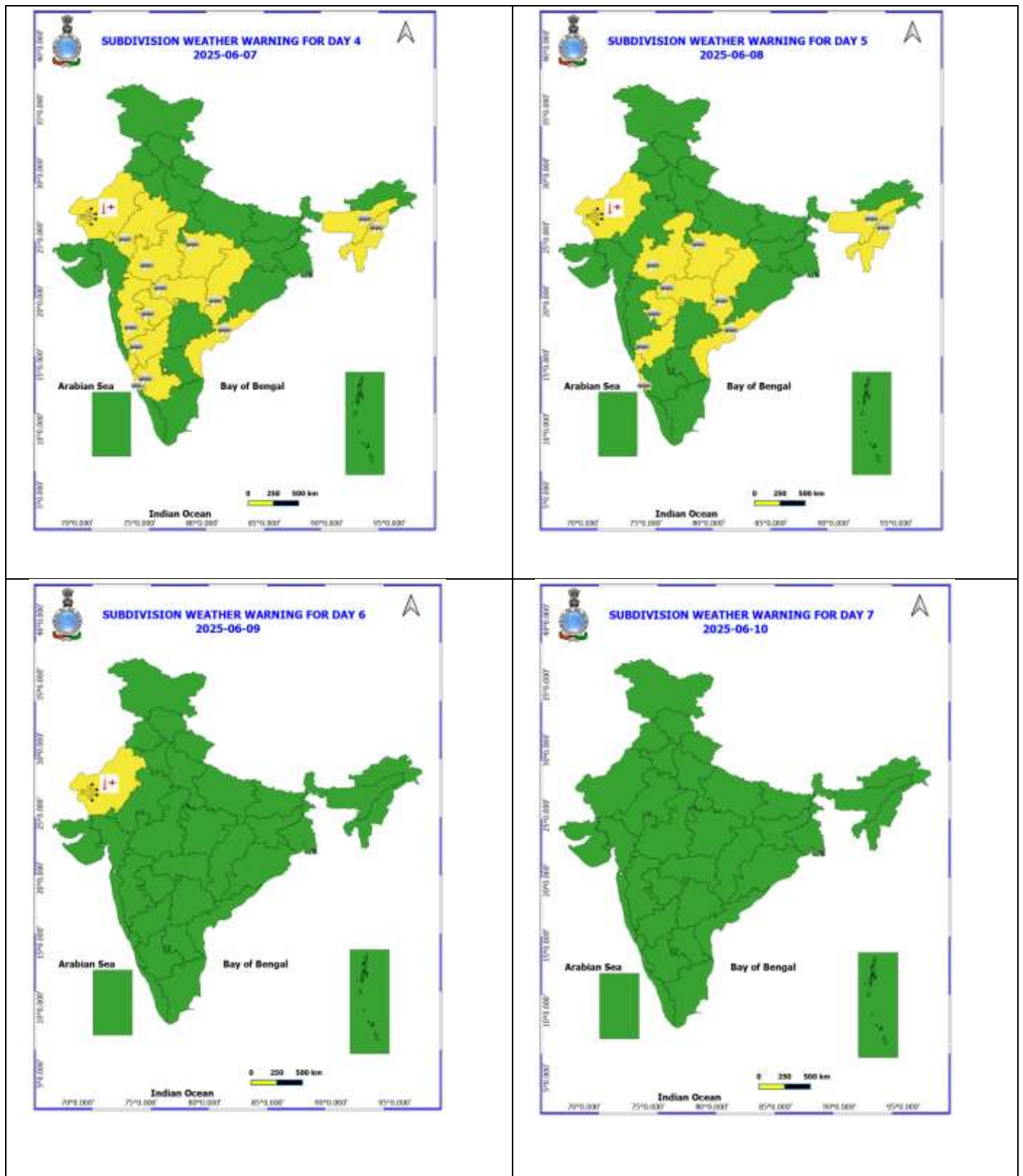
Fig.2: Departure of Maximum Temperatures



7 Days Rainfall Forecast								
S. No.	Subdivision	04-Jun	05-Jun	06-Jun	07-Jun	08-Jun	09-Jun	10-Jun
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	WS	FWS	FWS	FWS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	WS	FWS	FWS	SCT	SCT	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	FWS	SCT	SCT	SCT	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	FWS	SCT	SCT	FWS	SCT	FWS
6	GANGETIC WEST BENGAL	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
9	BIHAR	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	FWS	SCT	ISOL	DRY	DRY	DRY	DRY
13	HARYANA CHANDIGARH & DELHI	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	FWS	SCT	ISOL	DRY	DRY	DRY	DRY
16	JAMMU & KASHMIR AND LADAKH	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
17	WEST RAJASTHAN	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	SCT	ISOL	ISOL	ISOL	ISOL	DRY	DRY
19	WEST MADHYA PRADESH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
21	GUJARAT REGION	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
22	SAURASHTRA & KUTCH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
23	KONKAN & GOA	WS	WS	SCT	SCT	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	SCT	SCT	SCT	ISOL	ISOL	ISOL
25	MARATHAWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	ISOL	ISOL	ISOL	SCT	SCT	ISOL	ISOL
27	CHHATTISGARH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
32	COASTAL KARNATAKA	WS	FWS	FWS	WS	WS	WS	FWS
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	SCT	SCT	FWS	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	SCT	SCT	FWS	SCT	SCT
35	KERALA & MAHE	WS	FWS	SCT	SCT	SCT	SCT	FWS
36	LAKSHADWEEP	WS	FWS	SCT	SCT	SCT	FWS	FWS

- 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 04th to 07th June 2025**Past Weather:**

There has been a rise in the minimum temperature upto 2°C and fall in the maximum temperature upto 3°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi were around 32 to 33°C and 21 to 25° respectively. The minimum temperature was below normal up to 2 to 5°C and the maximum temperature was below normal up to 7 to 8°C. Partly cloudy sky conditions with predominant surface wind from the southwest direction with wind speeds up to 18 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:

04.06.2025: Partly cloudy sky. Very light to light rain accompanied by thunderstorm and gusty winds (speed 30 – 40 kmph) temporarily reaching 50 kmph during thunderstorm towards evening/night. The maximum temperatures over Delhi are likely to be in the range of 32 to 34°C. The maximum temperature will be below normal up to 6 to 8°C. The predominant surface wind will likely be from the southwest direction with a wind speed of less than 16 kmph in the afternoon. The wind speed will gradually decrease becoming 10-12 kmph from the northeast direction during evening and night.

05.06.2025: Partly cloudy sky. 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 southeast direction with a wind speed of less than 12 kmph during the morning hours. The wind speed will gradually increase becoming 20-25 kmph from the southwest direction in the afternoon. It will decrease becoming less than 12 kmph from the southeast direction during 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 west direction with a wind speed of less than 10 kmph during the morning hours. The wind speed will gradually increase becoming less than 18 kmph from the west direction in the afternoon. It will decrease to less than 10 kmph from the west direction during the evening and night.

07.06.2025: Mainly clear sky. Strong surface winds 25 – 35 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 near normal and the maximum temperature will be near normal. 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 less than 30 kmph from the northwest direction in the afternoon. It will decrease to less than 25 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 30 – 40 kmph) temporarily reaching 50 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 with extremely heavy falls over Assam & Meghalaya
04th June. (For Red 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 Himachal Pradesh, Bihar 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 sowing of *Sali* rice and vegetables in **Assam** 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 **Tripura**; Dalley Khorsani and tomato in **Sub Himalayan West Bengal** and rice nurseries, orchards and vegetables in **Kerala**.
- 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.

Livestock / Fishery

- Keep the animals inside the shed during heavy rainfall 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.

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

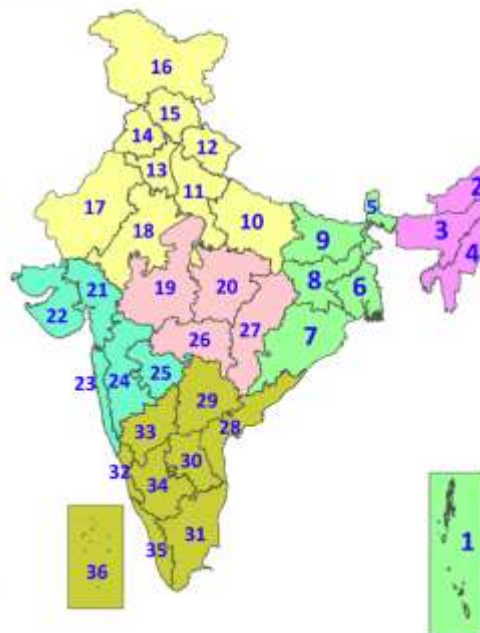
32. तटीय कर्नाटक

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)



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.