



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 21st June, 2025
Time of Issue: 1345 hours IST

Subject: (i) Heavy to very heavy rainfall likely over Northwest India, Madhya Pradesh, Gujarat and Konkan & Goa during 21st-26th June, 2025 with isolated extremely heavy rainfall over Gujarat Region and Madhya Pradesh on 21st & 23rd June respectively.
(ii) Heavy to very heavy rainfall likely to continue over Northeast India during next 3 days and isolated heavy rainfall thereafter for subsequent 4 days.

Southwest Monsoon (Annexure I):

- ❖ The Northern Limit of Monsoon continues to pass through 25.0°N/60.0°E, 25.0°N/65.0°E, 25.5°N/70.0°E, Jaipur, Agra, Rampur, Dehradun, Shimla, Manali and 33.5°N/79.0°E.
- ❖ Conditions are favourable for further advance of Southwest monsoon over remaining parts of North Arabian Sea, some more parts of Rajasthan, remaining parts of West Uttar Pradesh, Uttarakhand, Himachal Pradesh and some parts of Jammu & Kashmir-Gilgit-Baltistan, Muzaffarabad, some more parts of Ladakh during next 2 days. Conditions are also becoming favourable for further advance of southwest monsoon over remaining parts of Jammu & Kashmir, Ladakh, some parts of Punjab & Haryana and Chandigarh & Delhi during subsequent 2 days.

Realised weather during past 24 hours till 0830 hours IST of today, the 21st June, 2025 (Annexure II):

- ❖ **Heavy to very heavy rainfall at some places with extremely heavy falls** recorded at isolated places over Gujarat Region.
- ❖ **Heavy to very heavy rainfall** recorded at isolated places over East Rajasthan, Madhya Pradesh, East Uttar Pradesh, Madhya Maharashtra; **Heavy rainfall** at isolated places over Jharkhand, Jammu-Kashmir, Himachal Pradesh, Uttarakhand, Punjab, West Rajasthan, West Uttar Pradesh, Bihar, Chhattisgarh, Assam & Meghalaya, Konkan, Coastal Karnataka.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds with speed 60-120 kmph** at isolated places over Gujarat Region, Bihar; **40-60 kmph** at isolated places over Konkan & Goa, Saurashtra & Kutch, Andaman & Nicobar Islands, Madhya Maharashtra, Marathawada, Arunachal Pradesh, Assam & Meghalaya, Vidarbha, Jharkhand, Himachal Pradesh, Punjab.

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):

- ❖ A low pressure area lay over southwest Bihar & neighbourhood with associated upper air cyclonic circulation in middle tropospheric levels tilting southwards with height. It is likely to move slowly northwestwards and weakened gradually during next 12 hours.
- ❖ An upper air cyclonic circulation over northeast Rajasthan & neighbourhood in lower tropospheric levels.
- ❖ A trough runs from northeast Bangladesh to south Gujarat region across cyclonic circulation associated with low pressure area over southwest Bihar and central parts of Madhya Pradesh in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lay over central parts of Assam in lower tropospheric levels.
- ❖ An east-west trough runs from central Pakistan to the above upper air cyclonic circulation over central Assam across northwest Rajasthan, cyclonic circulation over northeast Rajasthan, North Madhya Pradesh, cyclonic circulation associated with low pressure area over southwest Bihar, Gangetic West Bengal and Meghalaya in lower tropospheric levels.
- ❖ An upper air cyclonic circulation is likely to form over Gangetic West Bengal & neighbourhood around 25th June.

- ❖ Under the influence of these systems, the following weather is likely:

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

East & Central India:

- ✓ **Extremely heavy rainfall (>20 cm/24 hours) likely at isolated places over Madhya Pradesh on 23rd June.**
- ✓ Isolated **heavy to very heavy rainfall** also likely to continue over Madhya Pradesh during 21st-27th June.
- ✓ Isolated **heavy rainfall** over Sub-Himalayan West Bengal & Sikkim, Bihar during 21st-24th; Andaman & Nicobar Islands on 21st & 22nd; Jharkhand on 22nd, 24th & 25th; Odisha on 24th & 25th; Gangetic West Bengal on 22nd and during 24th-26th; Vidarbha during 24th-27th; Chhattisgarh on 21st and during 24th-27th June with **very heavy rainfall** over Sub-Himalayan West Bengal & Sikkim on 22nd; Chhattisgarh on 24th June.
- ✓ Light/moderate rainfall at most/many places accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** likely over Andaman & Nicobar Islands; Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Odisha during 21st-27th June.

West India:

- ✓ **Extremely heavy rainfall (>20 cm/24 hours) likely at isolated places over Gujarat Region on 21st June.**
- ✓ Isolated **heavy to very heavy rainfall** likely over Konkan & Goa, Madhya Maharashtra, Gujarat state during 21st-27th June.
- ✓ Light/moderate rainfall at most/many places likely over Gujarat State, Konkan & Goa, Madhya Maharashtra, Marathawada during 21st-27th June.

Northwest India:

- ✓ Isolated **heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, East Rajasthan during 21st-27th; Punjab, Haryana, Chandigarh during 21st-26th; Uttar Pradesh during 21st-24th; West Rajasthan on 21st; Delhi on 22nd & 23rd with **very heavy rainfall** over East Rajasthan during 21st-23rd; south Haryana, Punjab on 22nd; Uttar Pradesh on 22nd & 23rd; Himachal Pradesh, Uttarakhand during 22nd-25th June.
- ✓ Light/moderate rainfall at most/many places accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph** likely over Northwest India during 21st-27th June.

Northeast India:

- ✓ Light/moderate rainfall at many/most places accompanied with **thunderstorm, lightning and isolated heavy to very heavy rainfall** likely to continue over Northeast India during next 7 days.

South Peninsular India:

- ✓ Isolated **heavy rainfall** likely over Kerala & Mahe during 22nd-27th; Coastal Karnataka during 22nd-25th; South Interior Karnataka during 23rd-25th June.
- ✓ Light/moderate rainfall at many/some places over Kerala & Mahe, Lakshadweep, Coastal Karnataka; isolated to scattered rainfall accompanied with isolated **thunderstorm, lightning** over Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka during 21st-25th June.

Maximum Temperature Forecast:

- ❖ Maximum temperatures are likely to fall by 2-4°C over southwest Rajasthan during next 3 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

Hot & Humid Conditions warnings:

- ❖ **Hot & Humid conditions** very likely in isolated pockets of Tamil Nadu on 21st & 22nd; Coastal Andhra Pradesh & Yanam, Rayalaseema during 21st-24th June.

Fishermen Warnings:

- ❖ Fishermen are advised not to venture into:
 - Arabian Sea:
 - ✓ Fishermen are advised not to venture over Along and off Gujarat coast for day 1 to 4 (21st to 25th June); off Gujarat coast for day 5 (25th to 26th June); north Konkan coast day 1 (21st June), entire Konkan coast

for day 2 & day 4 (22nd to 25th June), off Konkan coast for day 5 (25th June); Fishermen are advised not to venture along and off the Somalia coast and adjoining sea areas, Oman and adjoining Yemen coast & adjoining sea areas, central & adjoining north, south Arabian Sea and many parts of northeast Arabian Sea for day 1 to day 5 (21st to 26th June).

Bay of Bengal:

- ✓ Fishermen are advised not to venture along and off north Andhra Pradesh coast for day 1 to day 3 (21st to 24th June), off Andhra Pradesh coast for day 4 (24th June); off Odisha and West Bengal coasts for day 4 (24th June), along and off Odisha and West Bengal coasts for day 5 (25th June); Over many parts of central Bay of Bengal for day 1 to day 5 (21st to 26th June); over many parts of southwest Bay of Bengal for day 1 to day 3 (21st to 24th June), some parts of southwest Bay of Bengal for day 4 and day 5 (24th and 25th June); over some northern parts of southeast Bay of Bengal for day 1 to day 3 (21st to 24th Bay of Bengal).
- ✓ Fishermen are advised not to venture over the Andaman Sea from day 2 to day 4 (22nd – 25th June).

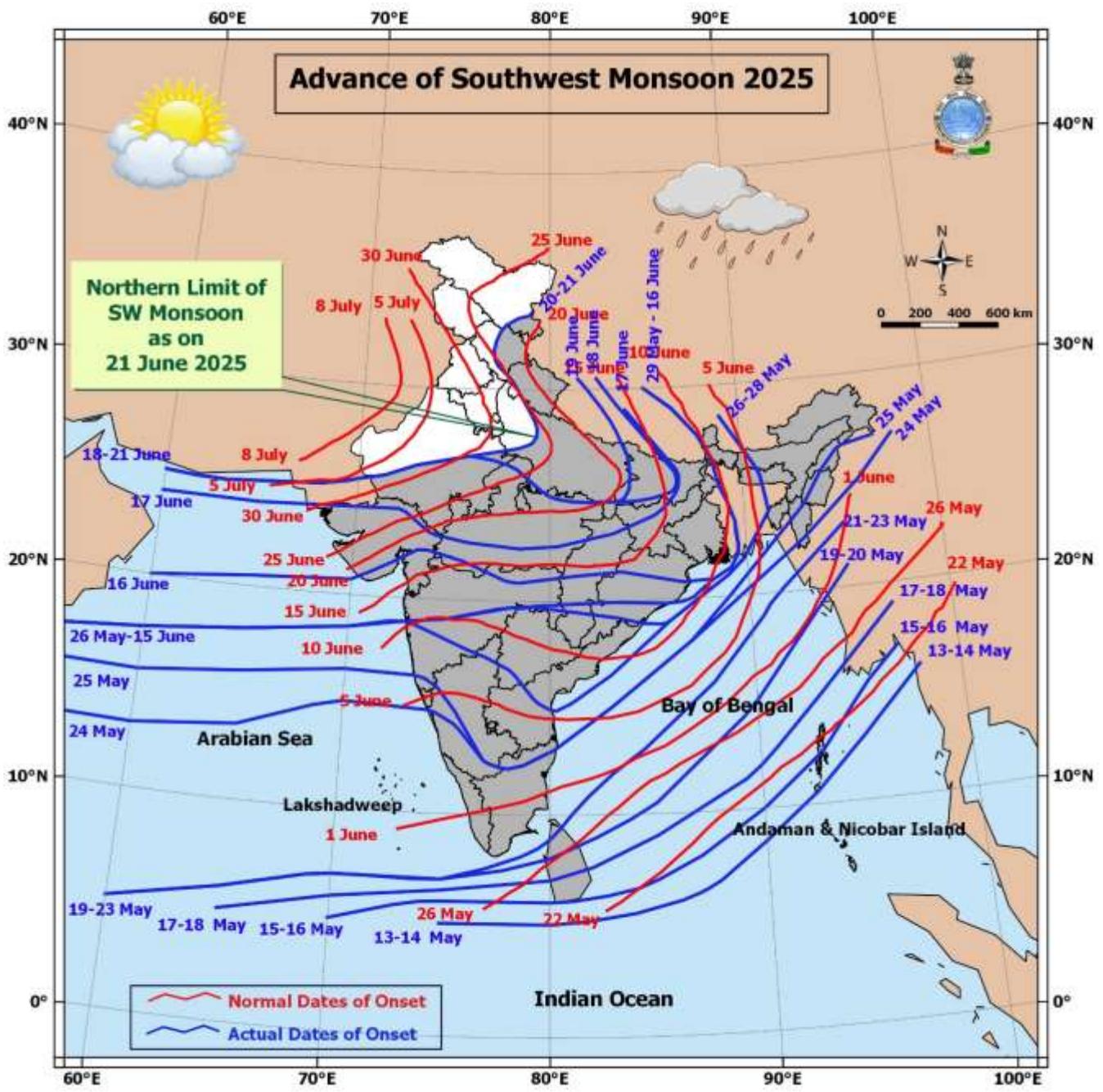
Total suspension of fishing operations is suggested over above mentioned areas and dates.

ii. Weather conditions and forecast over Delhi/NCR during 21st June to 24th June, 2025 (Annexure VI)

For more details, kindly refer National Weather Bulletin:

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

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



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, the 21st June:

- ❖ **Gujarat Region:** Jambughoda (dist Panchmahal) 20; Jetpur Pavi (dist Chhota Udepur) 13; Petlad (dist Anand) 9; Kaprada (dist Valsad) 8; Tarapur (dist Anand), Halol (dist Panchmahal) 7 Each;
- ❖ **West Madhya Pradesh:** Kathiwada (dist Alirajpur) 19; Bhabhra (dist Alirajpur) 17; Udaigarh (dist Alirajpur) 13; Badarwas (dist Shivpuri) 10; Karera (dist Shivpuri), Ranapur (dist Jhabua) 9 Each; Alirajpur (dist Alirajpur), Jabot (dist Alirajpur), Jhabua-aws (dist Jhabua), Badoda (dist Sheopur), Karhal (dist Sheopur) 8 Each; Guna-aws (dist Guna), Bamori (dist Guna) 7 Each;
- ❖ **East Rajasthan:** Niwai (dist Tonk) 16; Chaksu (dist Jaipur) 15; Chothkabarwara SR (dist Sawai Madhopur) 14; Uniara/aligarh (dist Tonk), Bundi (dist Bundi), Sikrai (dist Dausa) 12 Each; Kota-aero (dist Kota), Pipalda SR (dist Kota), Nadoti (dist Karauli), Phagi (dist Jaipur), Patan (dist Bundi) 11 Each; Badesar SR (dist Chittorgarh) 10; Talera SR (dist Bundi), Atru SR (dist Baran), Karauli (dist Karauli) 9 Each; Tonk Vanasthali (dist Tonk), Ladbura SR (dist Kota), Sawaimadhopur Tesil SR (dist Sawai Madhopur), Mozamabad SR (dist Jaipur) 7 Each;
- ❖ **East Uttar Pradesh:** Ghorawal (dist Sonbhadra) 14; Bhinga (dist Shrawasti) 11; Robertsganj (dist Sonbhadra), Manikpur (dist Chitrakoot) 7 Each;
- ❖ **Madhya Maharashtra:** Radhanagari (dist Kolhapur) 12; Shahuwadi (dist Kolhapur) 8; Mahabaleshwar (dist Satara), Ajra (dist Kolhapur), Gaganbawada (dist Kolhapur) 7 Each;
- ❖ **East Madhya Pradesh:** Sihawal (dist Sidhi) 12; Hanumana (dist Rewa) 9; Naigarhi (dist Rewa) 7;
- ❖ **Chhattisgarh:** Surajpur (dist Surajpur) 11; Manora (dist Jashpur), Patna (dist Koriya) 9 Each; Baikunthpur (dist Koriya), Shankargarh (dist Balrampur), Sanna (dist Jashpur) 7 Each;
- ❖ **Punjab:** Shahpur Kandi (dist Pathankot) 11; Madhopur (dist Pathankot) 7;
- ❖ **Himachal Pradesh:** Kangra AP (dist Kangra) 9;
- ❖ **Uttarakhand:** Narendranagar (dist Garhwal Tehri) 8;
- ❖ **Jharkhand:** Garhwa KvK AWS (dist Garhwa), Jaganathpur Bau KvK AWS (dist West Singhbhum), Barkagaon (dist Hazaribag) 8 Each;
- ❖ **Konkan & Goa:** Sawantwadi (dist Sindhudurg), Dahanu (dist Palghar) 8 Each; Sangameshwar Devrukh (dist Ratnagiri) 7;
- ❖ **Assam & Meghalaya:** Mawsynram (dist East Khasi Hills), Cherrapunji (dist East Khasi Hills) 8 Each; Chauldhawaghat (dist Lakhimpur), N.lakhimpur/Lilabari (dist Lakhimpur) 7 Each;
- ❖ **Coastal Karnataka:** Kadra (dist Uttara Kannada) 7;
- ❖ **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad:** Kathua ARG (dist Kathua) 7;
- ❖ **West Uttar Pradesh:** Jhansi (dist Jhansi) 7;
- ❖ **Bihar:** Garhi (dist Jamui) 7.

Realised Gusty Winds (kmph) During Past 24hours ending at 0830 hrs IST of today the 21st June:

- ❖ Gujarat Region: Godhra (Panchmahal) 118;
- ❖ Bihar: Arwal (74), Sukhet (41), Araria, Pusa (35), Madhepura (33), East Champaran, Arrabari, Saraiya (31), Dumaraon, Muzaffarpur, Supaul (30);
- ❖ Konkan & Goa: Alibag (Raigad)- 59;
- ❖ Saurashtra-Kutch: Dhari (Amreli) 57;
- ❖ Andaman & Nicobar Islands: Sri Vijayapuram (56), Hut Bay (33), Shaheed Dweep (31);
- ❖ Madhya Maharashtra: Vilholi (Nashik)- 56, Mahabaleshwar (Satara)- 56;
- ❖ Marathwada: Chh Sambhaji Nagar 46;
- ❖ Arunachal Pradesh: Lower Tato 44;
- ❖ Assam & Meghalaya: Mawkyrwat (Swkh) 44;
- ❖ Vidarbha: Yavatmal 43;
- ❖ Jharkhand: Chatra (39), Khunti (30);
- ❖ Himachal Pradesh: Bajaura 39;
- ❖ Punjab: Jalandhar 39;

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

- Yesterday, Maximum temperatures were in the range of 38-43°C over at a few places over west Rajasthan; at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal; in the range of 33-37°C over at many places over East Rajasthan, Vidarbha, Telangana; at a few places over Haryana-Chandigarh-Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha; at isolated places over Gangetic West Bengal, Bihar, Chhattisgarh, Gujarat state, North Interior Karnataka, West Madhya Pradesh, West Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, and below 33 °C elsewhere in the remaining part of the country. **Yesterday, the highest maximum temperature of 42.8°C is reported at Sri Ganganagar (West Rajasthan).**
- Maximum Temperature Departures (as on 21-06-2025): Maximum Temperatures were markedly above normal (> 5.1°C) at few places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Assam & Meghalaya, Himachal Pradesh and Tamil Nadu, Puducherry & Karaikal. appreciably above normal (3.1°C to 5.0°C) at isolated places over Odisha, Vidarbha and Coastal Andhra Pradesh & Yanam. above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka; at few places over Telangana and Rayalaseema; at isolated places over Konkan & Goa and Kerala & Mahe. near normal (-1.5°C to 1.5°C) at many places over West Rajasthan, Saurashtra & Kutch, Madhya Maharashtra and South Interior Karnataka; at most places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Marathwada, North Interior Karnataka and Lakshadweep; at few places over Andaman & Nicobar Islands and Sub Himalayan West Bengal & Sikkim; at isolated places over Gangetic West Bengal, Bihar, West Uttar Pradesh, Uttarakhand, Punjab, Gujarat Region and Chhattisgarh.

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

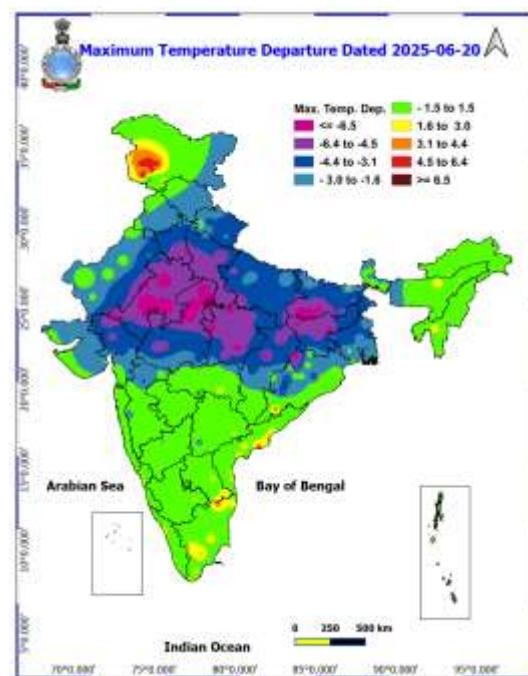
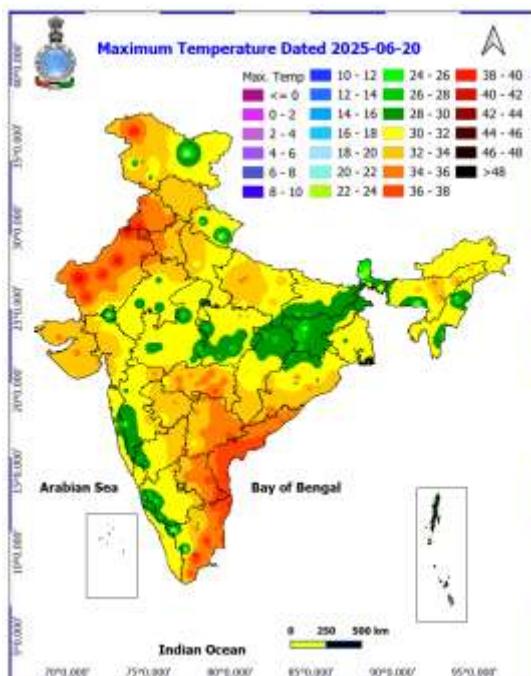
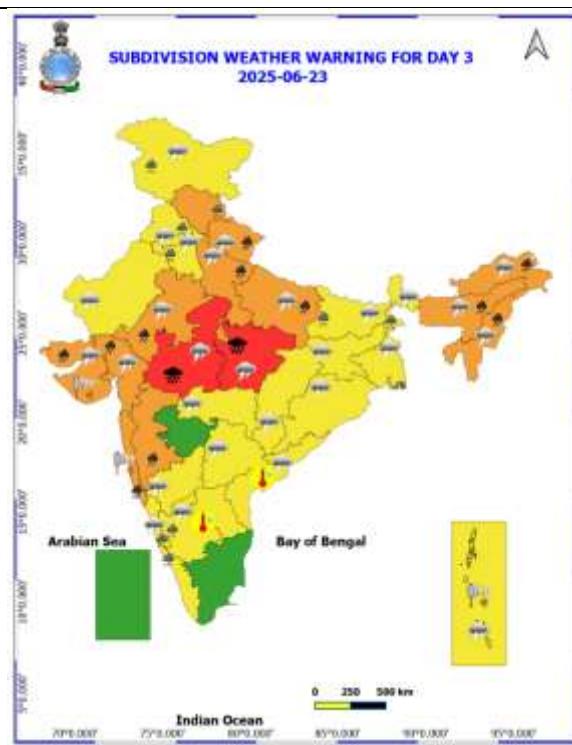
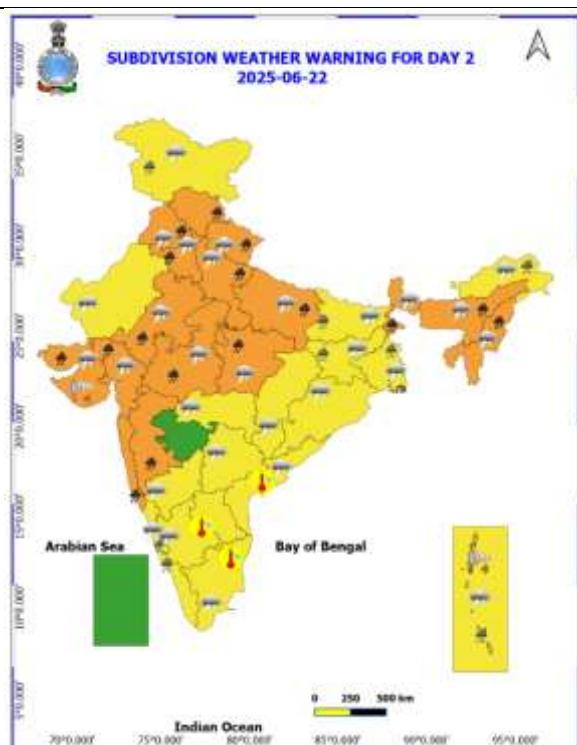
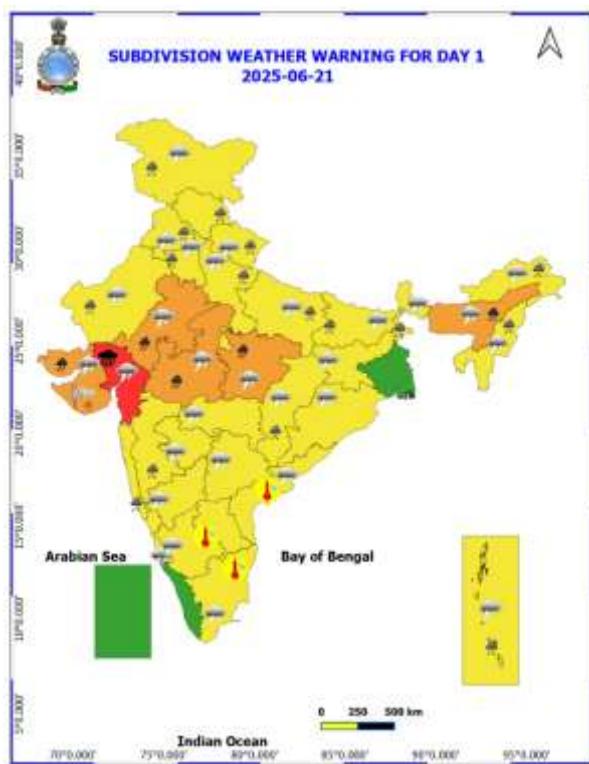
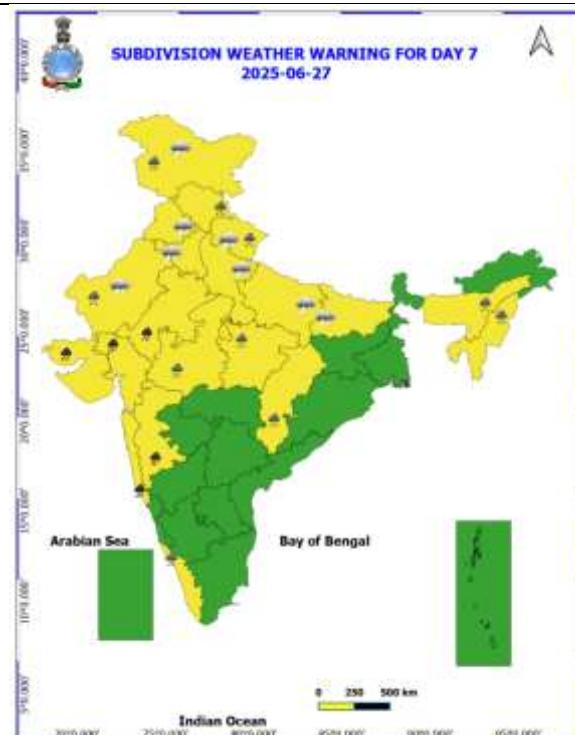
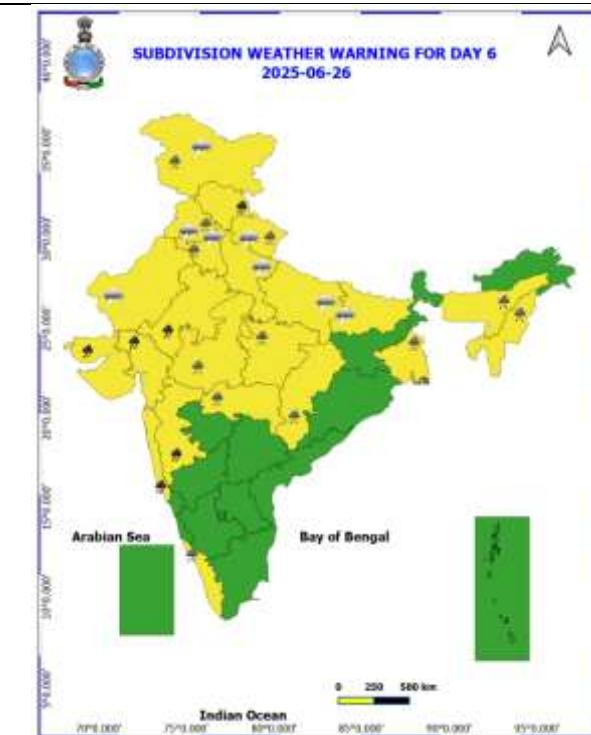
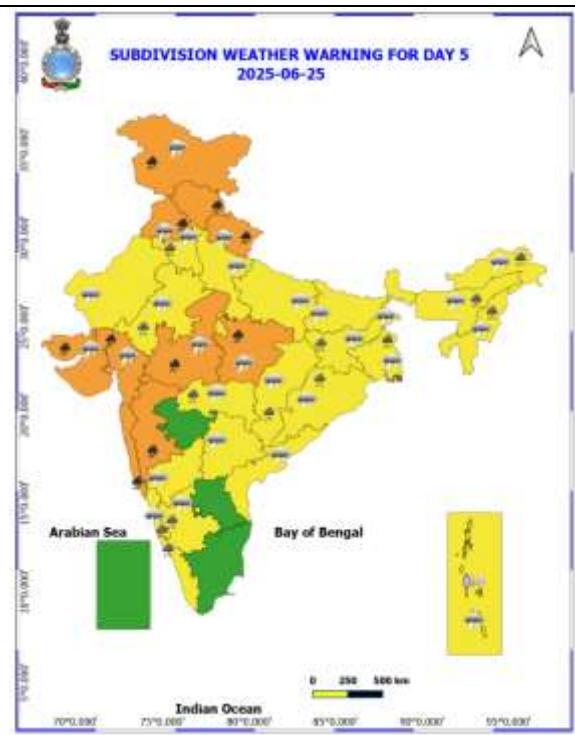
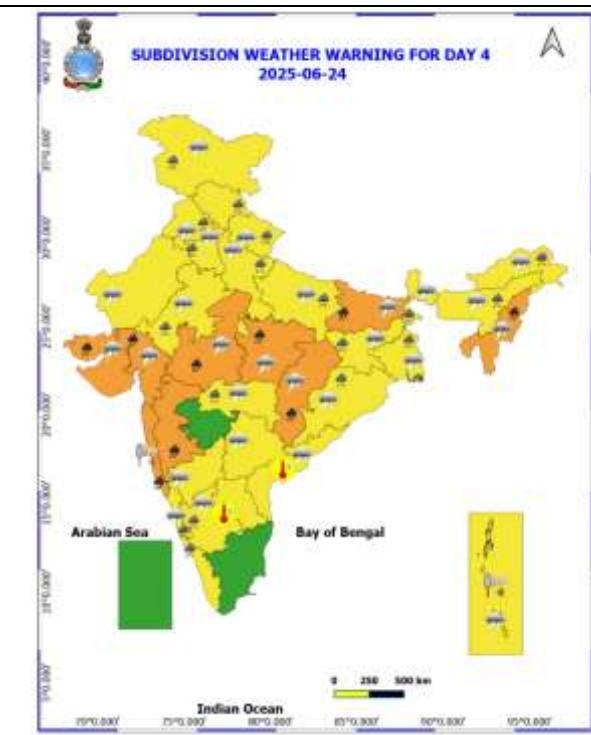


Table-1
7 Days Rainfall Forecast

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

- 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 21th to 24th June 2025

Past Weather:

There has been a rise in the minimum temperature up to 1°C and fall in the maximum temperature up to 1 - 2°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi were around 33 to 35°C and 25 to 27° respectively. The minimum temperature was below normal up to 1 - 3°C and the maximum temperature was below normal up to 4 - 8°C. Generally cloudy sky conditions with predominant surface wind from the east/southeast 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 east direction prevailed over the region in the forenoon today.

Weather Forecast:

21.06.2025: Partly cloudy sky. Very light to light rain/thunderstorm/lighting with gusty winds 30 - 40 kmph temporary reaching 50 kmph during thunderstorm towards evening/night. The maximum temperatures over Delhi are likely to be in the range of 36 to 38°C. The maximum temperature will be below normal up to 1 - 2°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 15 kmph in the afternoon. The wind speed will gradually decrease becoming 10-12 kmph from the southeast direction during evening and night.

22.06.2025: Generally cloudy sky. Moderate to heavy rain/thunderstorm/lighting accompanied with gusty winds 30 - 40 kmph temporary reaching 50 kmph during thunderstorm. The maximum and minimum temperatures over Delhi are likely to be in the range of 34 to 36°C and 27 to 29°C respectively. The minimum temperature will be near normal and the maximum temperature will be below normal up to 2 - 4°C. The predominant surface wind will likely be from the south direction with a wind speed of less than 10 kmph during the morning hours. The wind speed will gradually increase becoming 10-15 kmph from the southeast direction in the afternoon. It will increase becoming less than 20 kmph from the southwest direction during evening and night.

23.06.2025: Generally cloudy sky. Moderate to heavy rain/thunderstorm/lighting accompanied with gusty winds 30 - 40 kmph temporary reaching 50 kmph during thunderstorm. The maximum and minimum temperatures over Delhi are likely to be in the range of 33 to 35°C and 26 to 28°C respectively. The minimum temperature will be below normal up to 1 - 2°C and the maximum temperature will be below normal up to 3 - 5°C. The predominant surface wind will likely be from the south direction with a wind speed of less than 15 kmph during the morning hours. The wind speed will gradually increase becoming less than 20 kmph from the southwest direction in the afternoon. It will decrease to less than 10 kmph from the southwest direction during the evening and night.

24.06.2025: Generally cloudy sky. Light to Moderate rain accompanied with thunderstorm/lighting. The maximum and minimum temperatures over Delhi are likely to be in the range of 34 to 36°C and 25 to 27°C respectively. The minimum temperature will be below normal up to 1 - 3°C and the maximum temperature will be below normal up to 2 - 4°C. The predominant surface wind will likely be from the west direction with a wind speed of less than 15 kmph during the morning hours. The wind speed will gradually decrease becoming less than 12 kmph from the west direction in the afternoon. It will increase to less than 15 kmph from the west 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/lighting and gusty winds (speed 40 – 50 kmph) temporarily reaching to 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 extremely heavy falls/ very heavy rainfall:

- ✓ **Extremely heavy rainfall (>20 cm/24 hours) likely at isolated places over Gujarat Region on 21st; Madhya Pradesh on 23rd June.**
- ✓ **Very heavy rainfall** also likely to continue over Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Gujarat state during 21st-27th; over East Rajasthan during 21st-23rd; south Haryana, Punjab, Sub-Himalayan West Bengal & Sikkim on 22nd; Uttar Pradesh on 22nd & 23rd; Chhattisgarh on 24th; Himachal Pradesh, Uttarakhand during 22nd-25th June.

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 kutch roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landsips/mudsips/landsinks/mudsinks.
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Action Suggested

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

Agromet advisories for likely impact of Heavy / Heavy to Very Heavy / Extremely Heavy Rainfall

(Based on the IBF and advisories issued by different AMFUs)

- In **South Gujarat**, postpone nursery sowing of rice. Ensure proper drainage facilities in already sown rice nurseries, sugarcane fields, banana and mango plantations to prevent waterlogging. Provide support to sugarcane and banana to prevent lodging.
- In **Kymore Plateau and Satpura Hill Zone of East Madhya Pradesh**, harvest matured green gram and black gram crop and store in a safe place. In **Gird Zone of West Madhya Pradesh**, harvest matured maize crop and keep it in safe place. Postpone sowing of soybean and transplanting of chilli, tomato, brinjal etc. and ensure proper drainage in already sown / transplanted fields.
- In **Uttarakhand**, make proper drainage channels in rice nurseries, pigeon pea, groundnut, maize, soybean, barnyard millet and finger millet to avoid waterlogging. In **Bhabar and Tarai Zone of Uttarakhand**, harvest matured spring maize crop and vegetables (pumpkin, tomato, okra, chilli, French bean etc.) and store in safe place.
- In **Sub-Montane and Low Hills Sub-Tropical Zone of Himachal Pradesh**, provide drainage in maize and vegetable fields. Strengthen the support for creepers and tall vegetable crops (tomato, capsicum etc.). In **Mid Hills Sub-Humid Zone of Himachal Pradesh**, harvest matured fruits of plum to minimize losses due to heavy rains. Make proper drainage channels in the fields of maize, cucumber and tomato to avoid waterlogging. Provide support to cucumber vines and tomato plants to prevent lodging.
- In **East Uttar Pradesh**, make necessary arrangement to protect paddy nurseries from the adverse impacts of heavy rainfall. In **West Uttar Pradesh**, make arrangement to drain out excess water from the fields of pigeon pea and vegetables. Provide support to bottle gourd vegetables.
- In **East Rajasthan**, harvest the matured vegetables such as okra and cucurbits and store them in safe place. Make arrangement for draining out excess water from the fields of groundnut and green gram crop.
- In **Konkan & Goa** make arrangement to drain out excess water from rice nurseries, fields of finger millet, groundnut and orchards to prevent waterlogging.
- In **ghat areas of Madhya Maharashtra**, drain out excess water from rice nurseries and banana plantations prevent waterlogging.

- In **North Chhattisgarh**, ensure proper drainage in rice nurseries.
- In **Assam**, keep the harvested produce of sesame, foxtail millet, *Boro* rice, banana and citrus at safer places. Ensure proper drainage in *Sali* rice nursery, maize and sugarcane fields, arecanut and coconut plantations to prevent waterlogging. In **Barak Valley Zone of Assam**, postpone nursery sowing of *Sali* rice.
- In **Meghalaya**, postpone nursery sowing of rice especially in valleys. Ensure proper drainage in the fields of maize, ginger, French bean, cowpea, vegetables and around rice nurseries to prevent waterlogging. Provide strong bamboo stakes or trellis support to cow pea, cucumber and bottle gourd to prevent vines from trailing on wet ground. Provide support to banana plant to prevent lodging.
- In **Arunachal Pradesh**, keep the harvested produce of soybean and vegetables such as chilli and okra at a safer place. Ensure proper drainage in rice nurseries, kiwi and apple orchards to avoid waterlogging.
- In **Nagaland**, avoid transplanting of TRC/WRC rice. Postpone sowing of soybean. Provide proper staking to vine type plants.
- In **Tripura**, use sandbags to protect seedbeds of *Aus* paddy from waterlogging. Provide support to banana, papaya and young fruit plants to prevent lodging.
- In **Sub-Himalayan West Bengal**, maintain proper drainage channels in rice nurseries and fields of jute and ginger to avoid water stagnation.
- In **Jharkhand**, make necessary arrangements to drain out excess water from maize fields, rice and vegetable nurseries.

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. झारखण्ड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखण्ड

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. कोकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुदुचेरी और कराईकल

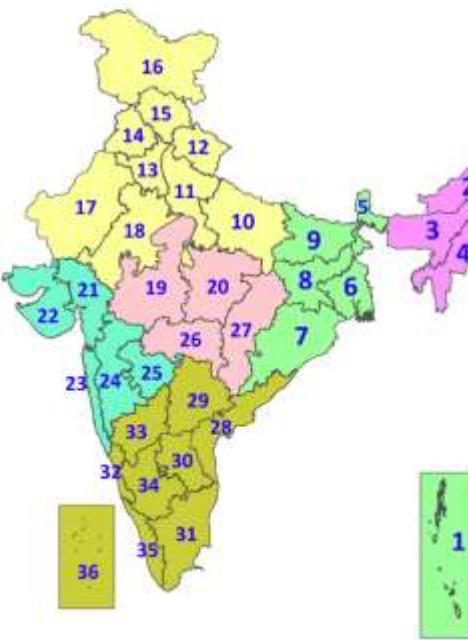
32. तटीय कर्नाटक

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक 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

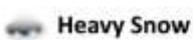
34. South Interior Karnataka

35. Kerala & Mahe

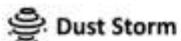
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

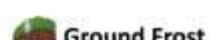
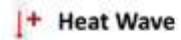
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)		
51-75	Fairly Widespread (FWS/Many Places)		
26-50	Scattered (SCT/A Few Places)		
1-25	Isolated (ISOL)		



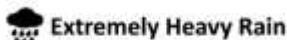
COLOUR CODED WARNING



No Warning (No Action)



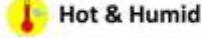
Watch (Be Aware)



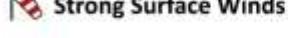
Alert (Be Prepared To Take Action)



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 *

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 Strom: 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.