



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 07th October, 2025

Time of Issue: 1315 hours IST

Subject: (i) Increase in rainfall activity with isolated heavy falls likely over South Peninsular India for next 5-6 days.

(ii) Under the influence of western disturbance, heavy rainfall is likely over Northwest India on today, the 07th October, 2025.

(iii) Conditions are favourable for further withdrawal of southwest monsoon from remaining parts of Gujarat, some more parts of Madhya Pradesh and Uttar Pradesh and some parts of Maharashtra during next 3-4 days.

Realised weather during past 24 hours till 0830 hours IST of today, the 07th October, 2025:

- ❖ **Heavy to very heavy rainfall (7-20 cm)** has been recorded at isolated places over West Uttar Pradesh, West Rajasthan and Odisha.
 - ❖ **Heavy rainfall (7-11 cm)** has been recorded at isolated places over Jammu-Kashmir, Haryana, East Rajasthan, East Madhya Pradesh, Vidarbha, Jharkhand, Coastal Andhra Pradesh, Rayalaseema, North Interior Karnataka, Telangana and Tamil Nadu.
 - ❖ Isolated **hailstorm** activity has been recorded over West Uttar Pradesh.
- For more details of realised weather, kindly refer [Annexure I](#).**

Withdrawal of southwest Monsoon:

- ❖ The line of withdrawal of southwest monsoon continues to pass through 20°N/ 69°E, Veraval, Bharuch, Ujjain, Jhansi, Shahjahanpur and 30°N/81°E. ([Annexure II](#)).
- ❖ Conditions are favourable for further withdrawal of southwest monsoon from remaining parts of Gujarat; some more parts of Madhya Pradesh and Uttar Pradesh and some parts of Maharashtra during next 3-4 days.

i. Weather Systems, Forecast and Warnings (refer to [Annexure III & IV](#)):

- ❖ Yesterday's cyclonic storm "Shakhti" [Pronunciation: Shakhti]" over westcentral and adjoining northwest Arabian Sea moved nearly southwards and weakened into a Deep Depression over the same region at 2330 hrs IST of yesterday, the 6th October, 2025. It further moved southeastwards, weakened into a **depression** and lay centred at 0830 hrs IST of today, the 07th October, 2025 over the same region, near latitude 19.0°N and longitude 60.5°E, about 250 km southeast of Masirah (Oman), 370 km south-southwest of Ras Al Hadd (Oman), 950 km east-northeast of Al-Ghaidah (Yemen), 950 km southwest of Karachi (Pakistan), 970 km west-southwest of Dwarka and 990 km west-southwest of Naliya. It is likely to move slowly southeastwards over westcentral & adjoining northwest Arabian Sea and weaken into a **well marked low pressure area** during next 12 hours.
- ❖ The Western Disturbance now seen as an induced low pressure area over North Rajasthan adjoining Haryana. The associated upper air cyclonic circulation extends upto upper tropospheric levels titling northwestwards with height. There is moisture feeding from Arabian Sea to over Western Himalayan Region in middle tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over northeast Jharkhand and another over northeast Assam & neighbourhood in lower tropospheric levels.
- ❖ A **trough** runs from north coastal Odisha to east Telangana in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over south Bangladesh & neighbourhood in lower tropospheric levels.

- ❖ An upper air **cyclonic circulation** lies over southwest Bay of Bengal off Tamil Nadu coast in lower tropospheric levels and a trough runs from this cyclonic circulation to Coastal Karnataka in lower tropospheric levels.

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

South Peninsular India:

- ❖ Light to moderate rain/thunderstorm at many/some places with isolated **heavy rainfall** likely over Tamil Nadu, during 07th-12th; Kerala & Mahe during 07th-13th; Lakshadweep & Coastal Karnataka during 07th-11th; South Interior Karnataka during 08th-12th; Rayalaseema during 08th-11th October.
- ❖ Strong surface winds (speed reaching 30-40 kmph) over Coastal Andhra Pradesh & Yanam on 07th October.
- ❖ **Thunderstorm with gusty wind (speed reaching 30-40 kmph)** likely over Coastal & South Interior Karnataka, Telangana during next 5 days; **with lightning** over Tamil Nadu, Kerala & Mahe, Lakshadweep, North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Rayalaseema during next 5 days.

Northwest India:

- ❖ Scattered to Fairly widespread rainfall accompanied with thunderstorm, lightning & gusty wind (speed reaching 30-50 kmph) very likely over Northwest India on 07th October.
- ❖ Isolated **heavy rainfall/snowfall** likely over Uttarakhand on 07th October.
- ❖ Isolated **heavy rainfall** likely over Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi on 07th October.

East & Central India:

- ❖ Light to moderate rainfall/thunderstorm at many/some places with isolated **thunderstorm & gusty winds (speed reaching 30-40 kmph)** very likely over West Madhya Pradesh on 07th; Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha during next 3-4 days; Bihar, Jharkhand on 07th & 08th; **with lightning** over East Madhya Pradesh & Chhattisgarh on 07th & 08th October.

Northeast India:

- ❖ Light/moderate rain/thunderstorm at some/isolated places with isolated **heavy rainfall** likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during 08th-10th; Arunachal Pradesh on 09th & 10th October.

West India:

- ❖ Light to moderate rain/thunderstorm at some places with isolated **heavy rainfall** likely over Konkan & Goa and Madhya Maharashtra on 08th October.
- ❖ Thunderstorm with lightning likely over Maharashtra region during next 4 days.

Fishermen warnings:

Fishermen are advised not to venture into Westcentral & adjoining Northwest, eastcentral Arabian Sea till 8th October. Along and off Kerala coast and over Lakshadweep area during 7th to 9th October. Along and off Karnataka coast on 8th October. Over Gulf of Mannar and adjoining Comorin area during 10th – 12th October.

ii. Weather conditions and forecast over Delhi/NCR during 07th to 10th October, 2025 (Annexure V)

For more details, kindly refer National Weather Bulletin:

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

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

For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php>

ANNEXURE I

Rainfall recorded (in cm) during past 24 hours till 0830 hours IST of today, the 07th October (≥ 7cm):

- ❖ **Odisha:** Hatadihi (dist Keonjhar) 14, Ghasipura (dist Keonjhar) 10, Gumma (dist Gajapati) 9, Kujanga (dist Jagatsinghpur) 8, Anandpur (dist Keonjhar) 7, Paradeep Cwr (dist Jagatsinghpur) 7, Tikabali (dist Kandhamal) 7;
- ❖ **West Rajasthan:** Kuchaman (Nagaur) 13, Nawa (Nagaur) 8, Jayal (Nagaur) 7, Sujangarh (Churu) 7, Ladnoo (Nagaur) 7, Kolayat Magra (Bikaner) 7;
- ❖ **West Uttar Pradesh:** Sambhal (dist Sambhal) 12;
- ❖ **Jharkhand:** Gobindpur Dvc (dist Dhanbad) 11, Gobindpur (dist Dhanbad) 7;

- ❖ **East Rajasthan:** Srimadhampur (Sikar) 11, Shahpura (Jaipur) 9, Viratnagar (Jaipur) 8, Sambhar (Jaipur) 8, Geola (Ajmer) 8, Choth ka barwara (Sawai Madhopur) 7;
- ❖ **Jammu-Kashmir:** Udhampur (dist Udhampur) 10, Batote (dist Ramban) 10, Bhaderwah Arg (dist Doda) 9, Anantnag (dist Anantnag) 8, Badarwah (dist Doda) 8, Banihal (dist Ramban) 8, Qazi Gund (dist Kulgam) 7, Kukernag (dist Anantnag) 7, Govindpura Aws (dist Ramban) 7;
- ❖ **Telangana:** Mudhole (dist Nirmal) 10; Khanapur (dist Warangal), Nidamanur (dist Nalgonda), Dilawarpur (dist Nirmal) 8 Each; Ranjal (dist Nizamabad) 7;
- ❖ **Coastal Andhra Pradesh:** Guntur (dist Guntur) 9, Jangamaheswarapuram (dist Palnadu) 8, Macherla (dist Palnadu) 7, Sattenapalle (dist Palnadu) 7;
- ❖ **Tamil Nadu:** Sriperumbudur (dist Kancheepuram) 9; Kumbakonam (dist Thanjavur) 8;
- ❖ **Rayalaseema:** Srisailam (dist Nandyal) 8;
- ❖ **Haryana:** Jhajar (Mantahal) 8, Mohna (dist Faridabad) 7;
- ❖ **Vidarbha:** Ballarpur (dist Chandrapur) 7;
- ❖ **East Madhya Pradesh:** Seoni (dist Seoni) 7;
- ❖ **North Interior Karnataka:** Bagalkote_Chikkashellikeri 7.

Annexure II

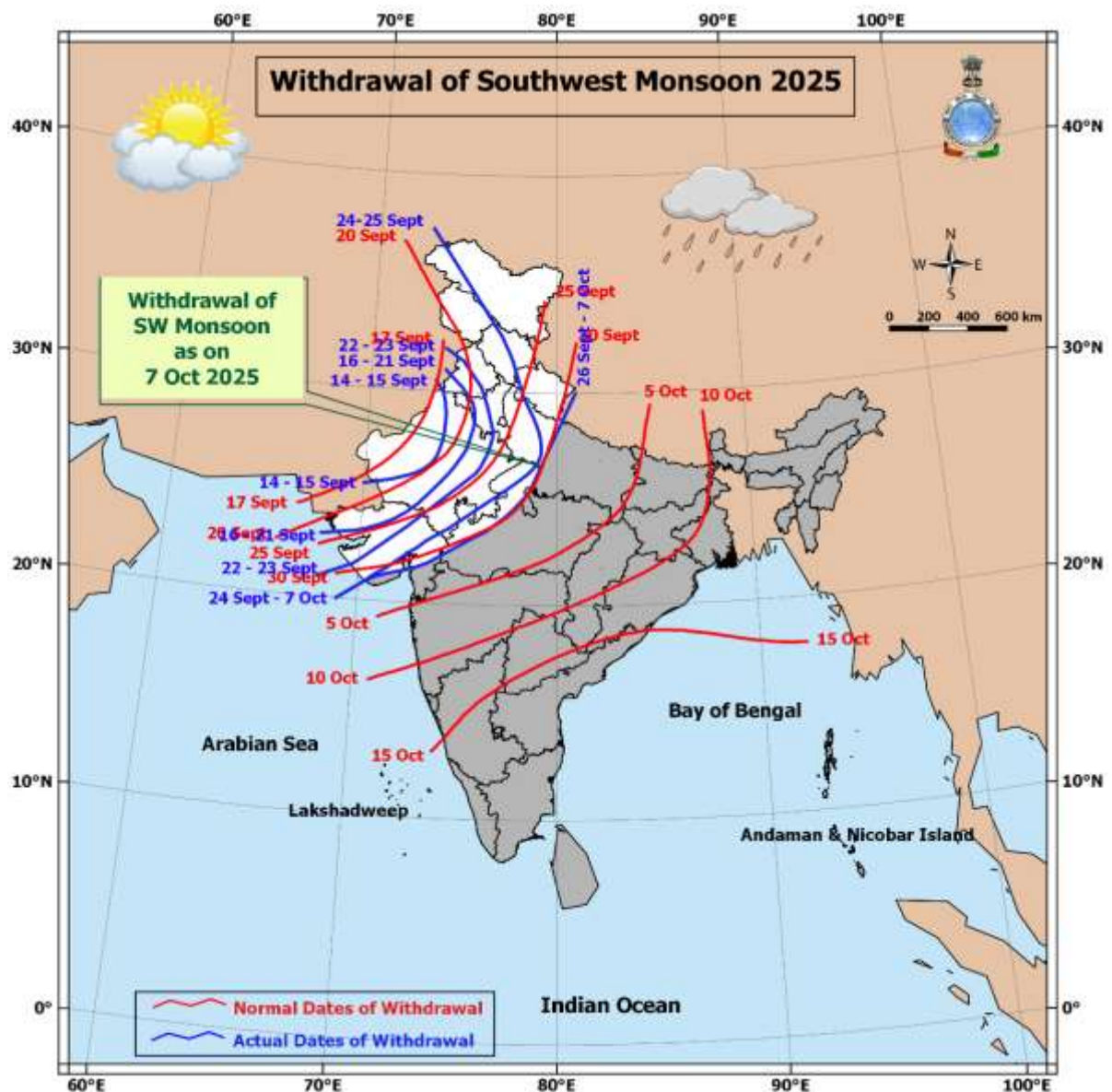
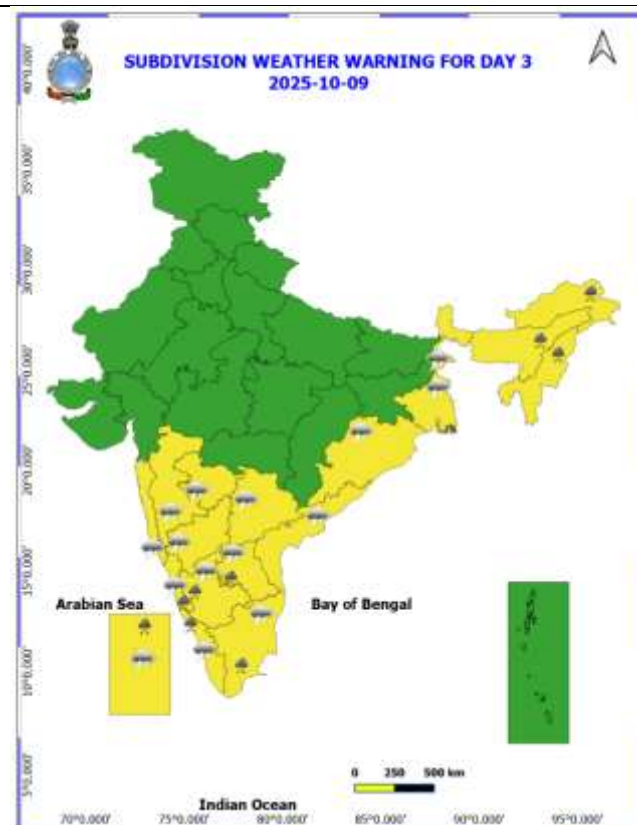
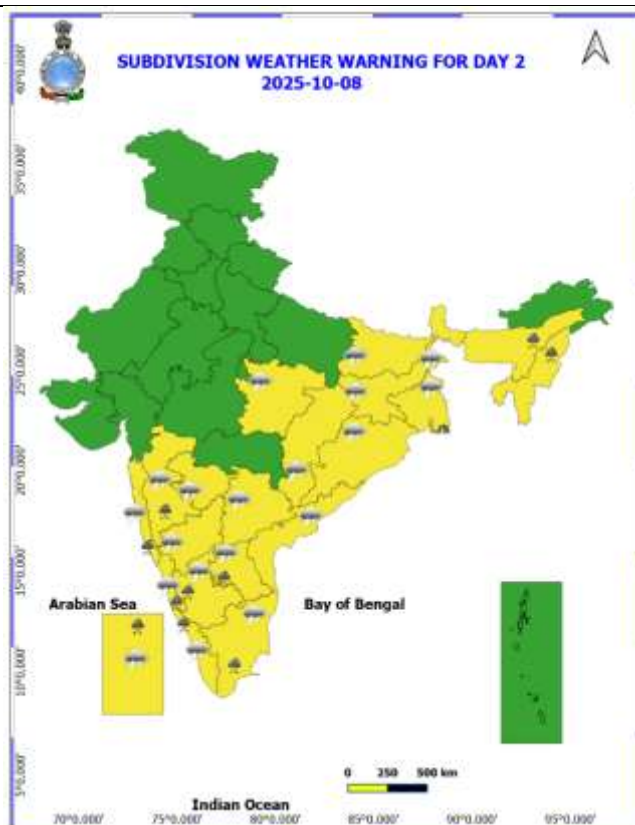
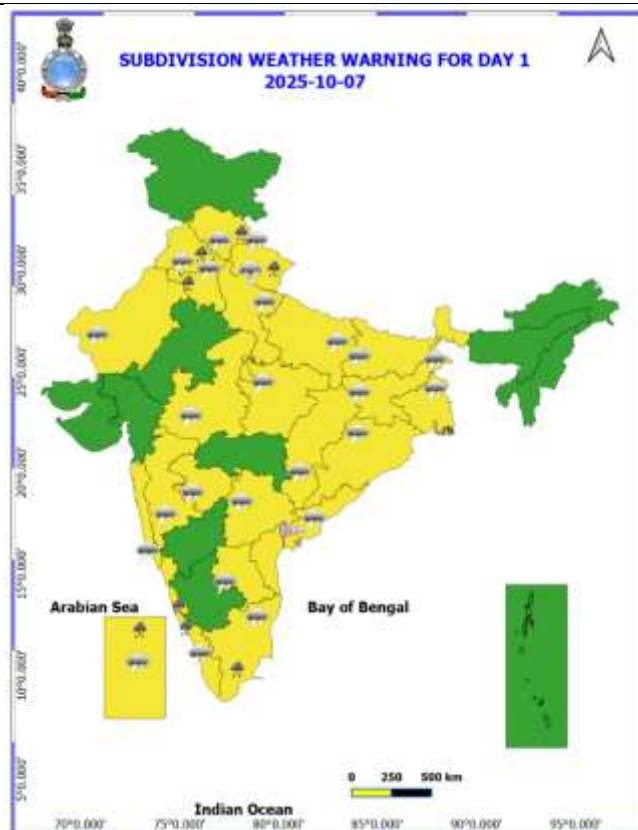
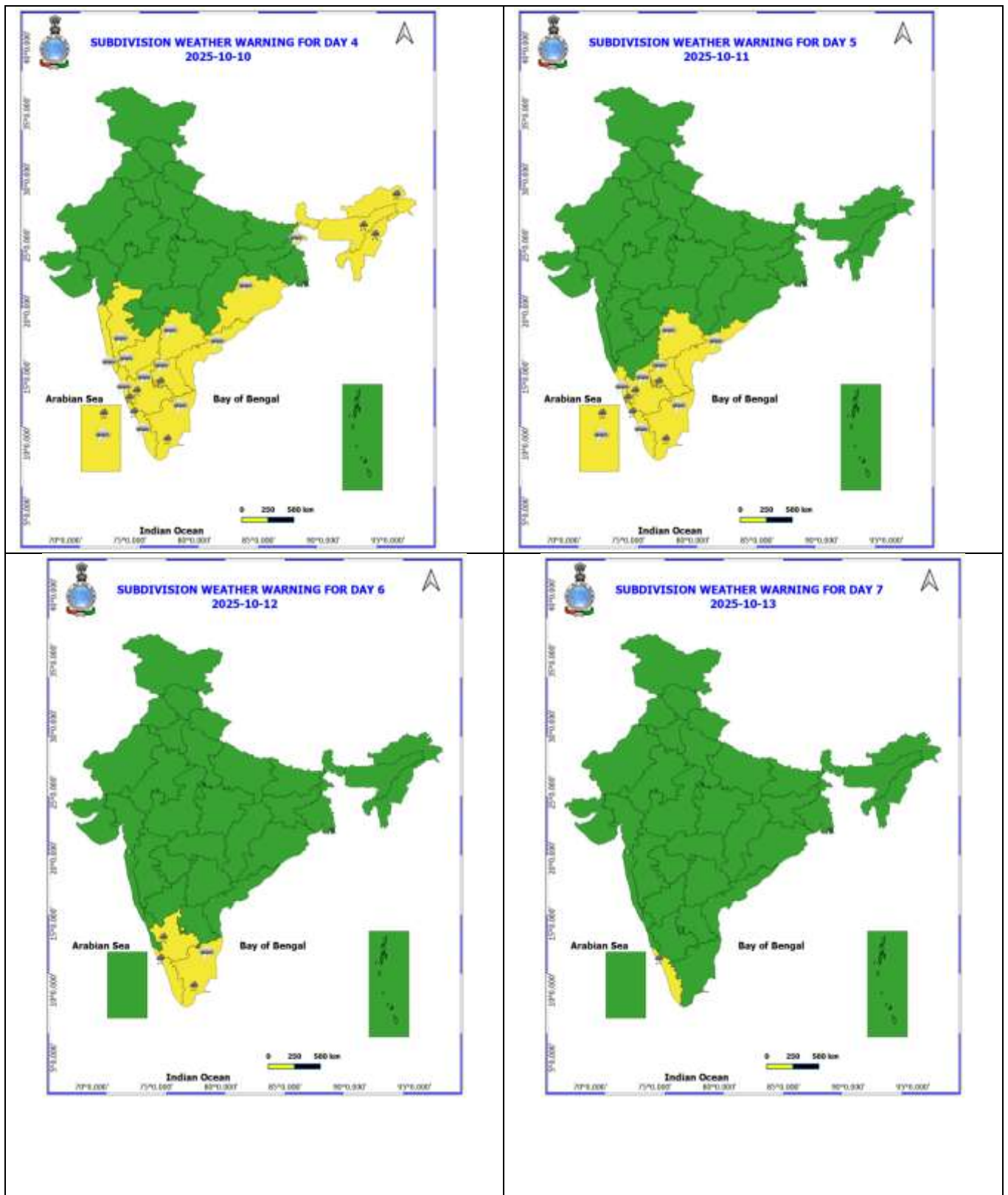


Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	7- Oct	8- Oct	9- Oct	10- Oct	11- Oct	12- Oct	13- Oct
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	FWS	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	SCT	SCT	SCT	SCT	SCT	ISOL	ISOL
3	ASSAM & MEHGHALAYA	SCT	SCT	SCT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

- As the lead period increases forecast accuracy decrease.





- 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 07th to 10th October 2025

Past Weather:

There has been no large change in minimum temperatures and markedly fall in maximum temperatures by 6-9°C during past 24 hours over Delhi. The minimum temperatures are in the range of 18-21°C and maximum temperatures were in the range of 25-27°C over Delhi. The minimum temperatures are appreciably below normal by 01-04°C and maximum temperatures were markedly below normal by 07-09°C over Delhi. Westerly winds prevailed with wind speed upto 18 kmph in past 24 hours over Delhi. Very light to light rain/thunderstorms at most places has been recorded in Delhi. Generally cloudy sky conditions with a wind speed of less than 15 kmph from the southwest direction prevailed over the region in the forenoon today.

Weather Forecast:

07.10.2025: Generally cloudy sky becoming partly cloudy sky. The maximum temperature over Delhi is likely to be in the range of 29 to 31°C. The maximum temperature will be below normal by 2-3 °C. The predominant surface wind will likely to be from the southeast direction with a wind speed of upto 15 kmph during the evening hours. It will gradually decrease to less than 8 kmph from the southeast direction during night.

08.10.2025: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 31 to 33°C and 20 to 22°C respectively. The minimum and maximum temperatures will be near normal. The predominant surface wind will likely to be from the northwest direction with a wind speed of upto 05-10 kmph during morning. It will gradually increase upto 10-15 kmph from the northwest direction during afternoon and remain same upto 10-15 kmph from the northwest direction during evening and night.

09.10.2025: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 31 to 33°C and 20 to 22°C respectively. The minimum and maximum temperatures will be near normal. The predominant surface wind will likely to be from the northwest direction with a wind speed upto 05-10 kmph during morning. The predominant surface wind will likely to be from the northwest direction with a wind speed of upto 10-15 kmph during afternoon. It will remain same upto 10-15 kmph from the northwest direction during evening and night.

10.10.2025: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 32 to 34°C and 20 to 22°C respectively. The minimum and maximum temperatures will be near normal. The predominant surface wind will likely to be from the northwest direction with a wind speed upto 05-10 kmph during morning. The predominant surface wind will likely to be from the north-northwest direction with a wind speed of upto 10-15 kmph during afternoon. It will remain same upto 10-15 kmph from the northwest direction during evening and night.

Agromet advisories for likely impact of Heavy Rainfall

- In Jammu & Kashmir, drain out excess water from fields of rice, maize and other standing crops.
- In Himachal Pradesh, keep the harvested produce of rice, maize, kidney beans, finger millet, vegetables and fruits (pomegranate, apple and kiwi) in safer places. Ensure proper drainage in fields of standing crops (rice, maize, kidney beans, finger millet etc.), vegetables and fruit orchards to avoid waterlogging.
- In Uttarakhand, store the harvested produce of green gram, black gram, finger millet, rice, vegetables and fruits in safe place. Maintain drainage channels in standing crop fields to remove excess water.
- In Punjab, keep the harvested produce of rice and maize in safe places. Ensure proper drainage to drain out excess water from fields of rice, maize, cotton and vegetables.
- In Haryana, store the harvest produce of rice, green gram, black gram and cotton in safer places. Make provision to drain out excess water from standing crop fields.
- In West Uttar Pradesh, drain out excess water from fields of rice, maize, green gram, sugarcane, groundnut and vegetables.
- In Tamil Nadu, harvest matured crops of rice and groundnut and shift the harvested produce to safer places. Provide adequate drainage facilities in fields of rice, cotton, turmeric and vegetables and plantations of coconut and banana to avoid water stagnation.
- In Kerala, make provision to drain out excess water from fields of rice and plantations of banana, coconut, arecanut and black pepper.

- In Coastal Karnataka, make necessary arrangements to drain out excess water from fields of rice and plantations of coconut and arecanut.
- In South Interior Karnataka, harvest matured crops of groundnut and maize and store the produce in safer places. Shift the harvested produce of pepper, cardamom, turmeric and coffee to dry, covered and ventilated areas or cover with tarpaulins in the fields. Ensure proper drainage in fields of rice, maize, finger millet, pigeon pea, soybean, groundnut and vegetables and plantations of banana, black pepper, coconut and arecanut to avoid waterlogging.
- In Rayalseema, make provision to drain out excess water from fields of rice, groundnut, cotton, turmeric and vegetables.
- In Assam, ensure proper drainage of excess water from fields of *Sali* rice, black gram, green gram and vegetables.
- In Meghalaya, make necessary arrangements to drain out excess water from fields of standing crops, vegetables and fruit orchards.

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.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds / Squally Winds

- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

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

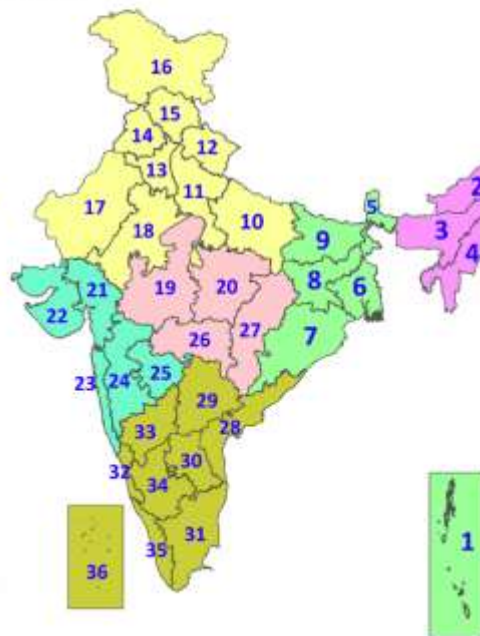
32. तटीय कर्नाटक

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)

* 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

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