



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



Press Release

Date: 06th October, 2025

Time of Issue: 1330 hours IST

Subject:(i) Under the influence of intense western disturbance, heavy to very heavy rainfall & hailstorm likely over Northwest India on today, the 06th October 2025.

(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.

Realised weather during past 24 hours till 0830 hours IST of today, the 06th October, 2025:

- ❖ **Heavy to very heavy rainfall (7-20 cm)** has been recorded at isolated places over Coastal Andhra Pradesh, Marathawada, Tamil Nadu, Assam & Meghalaya, Sub-Himalayan West Bengal.
- ❖ **Heavy rainfall (7-11 cm)** has been recorded at isolated places over Interior Karnataka, Rayalaseema, Gangetic West Bengal, Odisha, Jharkhand, West Madhya Pradesh, Rajasthan.
- ❖ Isolated **hailstorm** activity has been recorded over West Rajasthan.

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 severe cyclonic storm "Shakhti" [Pronunciation: Shakhti] over northwest & adjoining westcentral Arabian Sea moved southwestwards during night and lay over westcentral and adjoining northwest Arabian Sea. It further moved nearly southwards and weakened into a Cyclonic Storm over the same region in the morning of today, the 06th Oct 2025. Further it moved nearly southwards with a speed of 10 kmph during last 6 hours, and lay centered at 0830 hrs IST of today, the 6th October, 2025 over the same region, near latitude 19.6°N and longitude 60.5°E, about 210 km southeast of Masirah (Oman), 310 km south- southeast of Ras Al Hadd (Oman), 900 km southwest of Karachi (Pakistan), 940 km west-southwest of Dwarka and 960 km west-southwest of Naliya. It is likely to move east-southeastwards over westcentral & adjoining northwest Arabian Sea and weaken into a depression by the morning of 7th October.
- ❖ A Western Disturbance as a cyclonic circulation lies over northeast Afghanistan & adjoining Pakistan between 3.1 & 5.8 km above mean sea level with a trough aloft in upper tropospheric westerlies with its axis at 7.6 km above mean sea level roughly along Long. 69°E to the north Lat. 23°N. An induced cyclonic circulation lies over central Pakistan & adjoining West Rajasthan in lower tropospheric levels. There is high moisture feeding from Arabian Sea over northwest India in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over East Uttar Pradesh & neighbourhood and another over northeast Bihar & neighbourhood in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over northeast Assam & neighbourhood in lower tropospheric level.

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

East India:

- ❖ Light to moderate rainfall/thunderstorm at many/ some places with isolated thunderstorm & gusty winds (speed reaching 30-40 kmph) very likely over Sub-Himalayan West Bengal & Sikkim on 06th; Gangetic West Bengal during 06th-08th; with lightening over East Madhya Pradesh, Odisha during 06th-10th; Chhattisgarh, Bihar, Jharkhand during next 2-3 days.

Northwest India:

- ❖ Fairly widespread to widespread rainfall accompanied with thunderstorm, lightning & gusty wind (speed reaching 30-50 kmph) very likely over Northwest India on 06th & 07th October.
- ❖ Isolated **heavy rainfall** likely over Himachal Pradesh, Uttarakhand on 06th & 07th; Haryana Chandigarh & Delhi, West Uttar Pradesh and Rajasthan on 06th October; with **very heavy rainfall** over Jammu-Kashmir, Himachal Pradesh, Punjab on 06th October.
- ❖ Isolated **hailstorm** activity is also likely over Uttarakhand, Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh, Rajasthan on 06th October.

Northeast India:

- ❖ Light/moderate rain/thunderstorm at many/some places with isolated over Arunachal Pradesh on 06th and 07th; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 06th – 08th October.
- ❖ Isolated **heavy rainfall** likely over Arunachal Pradesh on 6th and during 9th & 10th October; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 5 days.

South Peninsular India:

- ❖ Light to moderate rain/thunderstorm at many/some places with isolated **heavy rainfall** likely over Tamil Nadu, during 06th-10th; Kerala & Mahe during 08th – 10th; Coastal and North Interior Karnataka during 08th – 10th October and Rayalaseema during next 5 days.
- ❖ Strong surface winds (speed reaching 30-40 kmph) over Coastal Andhra Pradesh & Yanam on 06th & 07th October.
- ❖ Thunderstorm with gusty wind (speed reaching 30-40 kmph) Kerala & Mahe during 08th – 10th October; Interior Karnataka during next 5 days.

Fishermen warnings:

Fishermen are advised not to venture into Westcentral & adjoining Northwest Arabian Sea till 7th October.

ii. Weather conditions and forecast over Delhi/NCR during 06th to 09th 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 06th October (≥ 7cm):

Tamil Nadu, Puducherry & Karaikal: Needamangalam (dist Tiruvarur) 14; Srimushnam (dist Cuddalore) 9; Vaniyambadi (dist Tirupattur), Lalpet (dist Cuddalore) 8 Each;

Assam & Meghalaya: Williamnagar (dist East Garo Hills) 14; Williamnagar AWS (dist East Garo Hills) 10; Dhubri CWC (dist Dhubri) 9; Bhaghmara (dist South Garo Hills), Dhubri IMD (dist Dhubri) 7 Each;

Coastal Andhra Pradesh & Yanam: Yelamanchili (dist Anakapalli) 12; Chimakurthi (dist Prakasam) 7; **Marathwada:** Parbhani (dist Parbhani) 12; Kandhar (dist Nanded) 11; Loha (dist Nanded) 9; Umari (dist Nanded), Mukhed (dist Nanded) 8 Each; Palam (dist Parbhani) 7;

West Madhya Pradesh: Navibagh Aet (dist Bhopal) 11; Chachoda (dist Guna), Raisen-aws (dist Raisen) 9 Each; Timarni (dist Harda) 7;

Sub Himalayan West Bengal & Sikkim: Aryaman Tea Estate (dist Alipurduar), Sankos Tea Estate (dist Alipurduar) 11 Each; Kumargram Tea Estate (dist Alipurduar) 10; Alipurduar PTO (dist Alipurduar),

Ghughumari (dist Cooch Behar), Raidak Tea Estate (dist Alipurduar) 8 Each; Barobhisha (dist Alipurduar), Cooch Behar (dist Cooch Behar), Patkapara Tea Estate (dist Alipurduar) 7 Each;
East Rajasthan: Bhainsroadgarh SR (dist Chittorgarh) 10; Ramganjmandi SR (dist Kota) 9; Sangod (dist Kota) 7; Rayalaseema: Badvel (dist Ysr District), Kondapuram (dist Ysr District) 9 Each; Rudravaram (dist Nandyal) 7; Odisha: Puri (dist Puri) 8; Rajkanika (dist Kendrapara), Gosani (dist Gajapati) 7 Each;
Telangana: Pedda Adiserlapalle (dist Nalgonda) 10; Regode (dist Medak) 9; Kamareddy (dist Kamareddy), Nizam Sagar (dist Kamareddy) 8 Each; Jukkal (dist Kamareddy), Pitlam (dist Kamareddy), Devarakonda (dist Nalgonda), Narayankhed (dist Sangareddy), Dilawarpur (dist Nirmal), Velagatoor (dist Jagtial) 7 Each;
Gangetic West Bengal: Harinkhola (dist Hooghly), Sagar Island PTO (dist South 24 Parganas) 8 Each; Digha (dist East Midnapore) 7;
North Interior Karnataka: Shahpur (dist Yadgir), Bhalki (dist Bidar) 7 Each;
South Interior Karnataka: Rayalpadu (dist Kolar) 7;
Vidarbha: Korchi (dist Gadchiroli) 7; West Rajasthan: Rawatsar SR (dist Hanumangarh) 7; Bihar: Sonbarsa (dist Sitamarhi) 7.

Annexure II

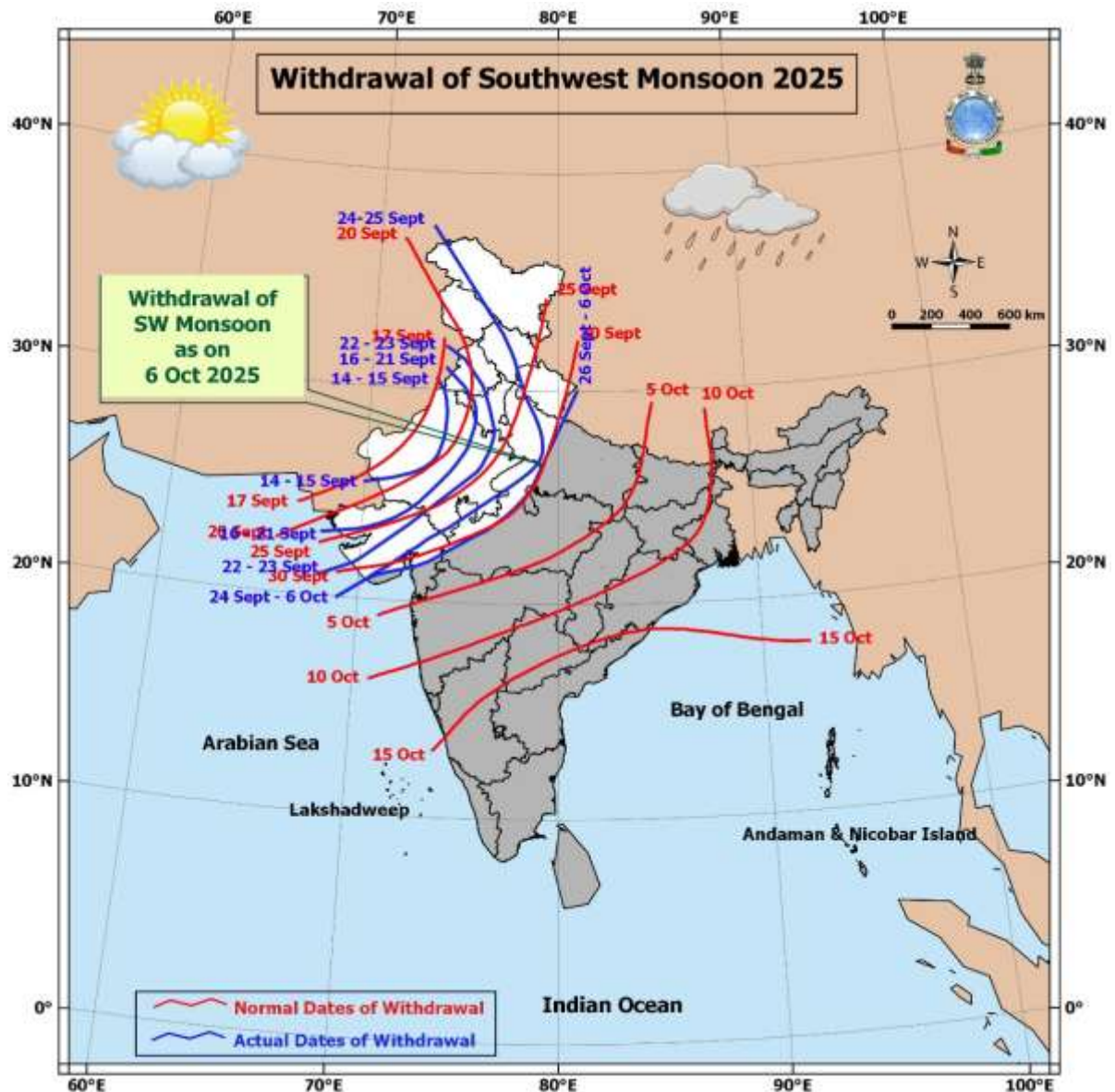
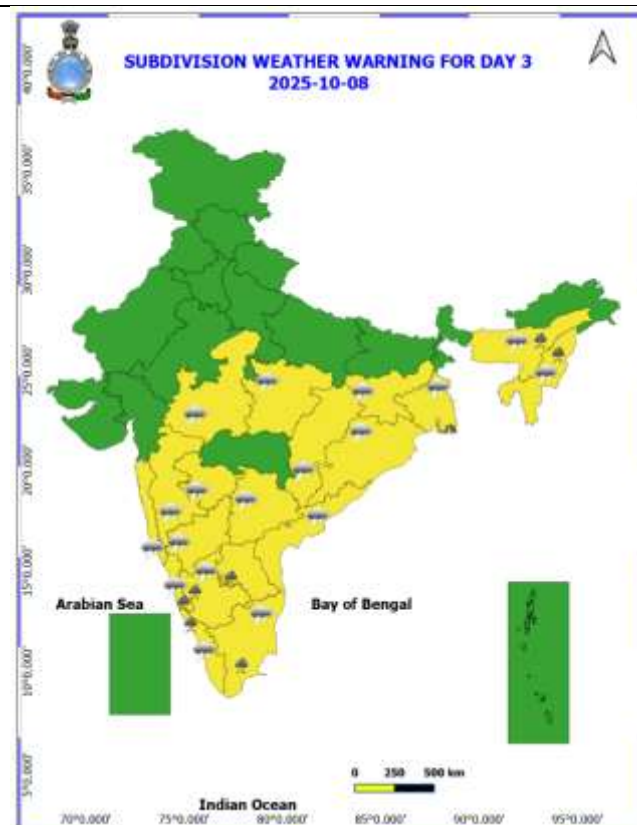
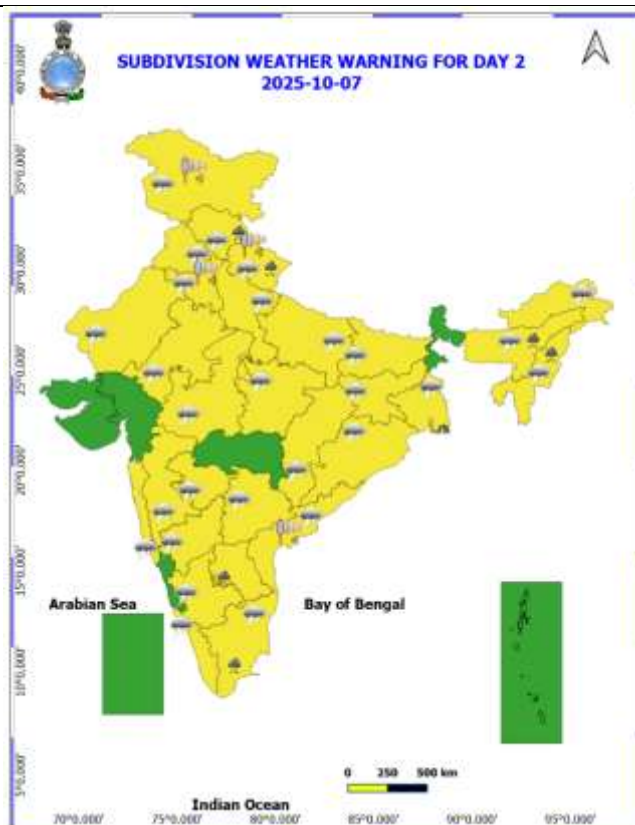
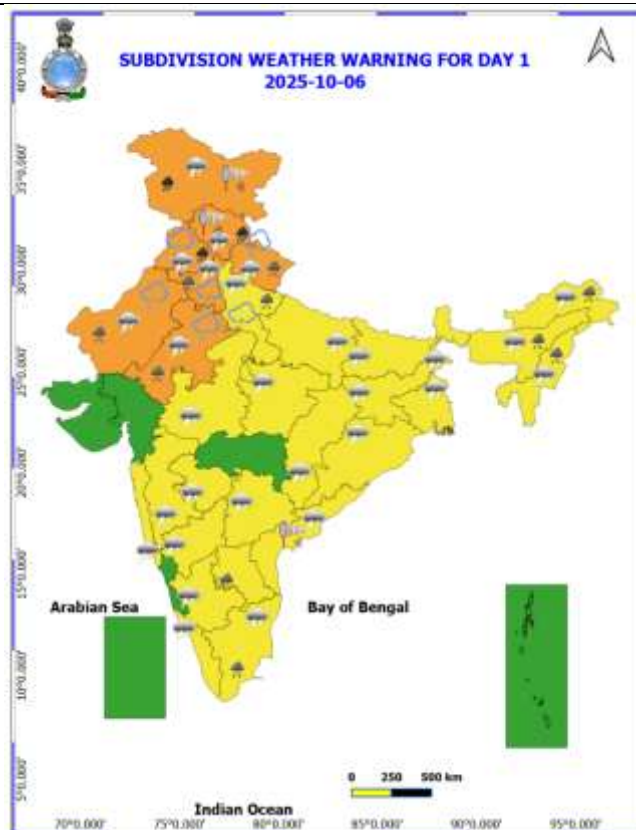
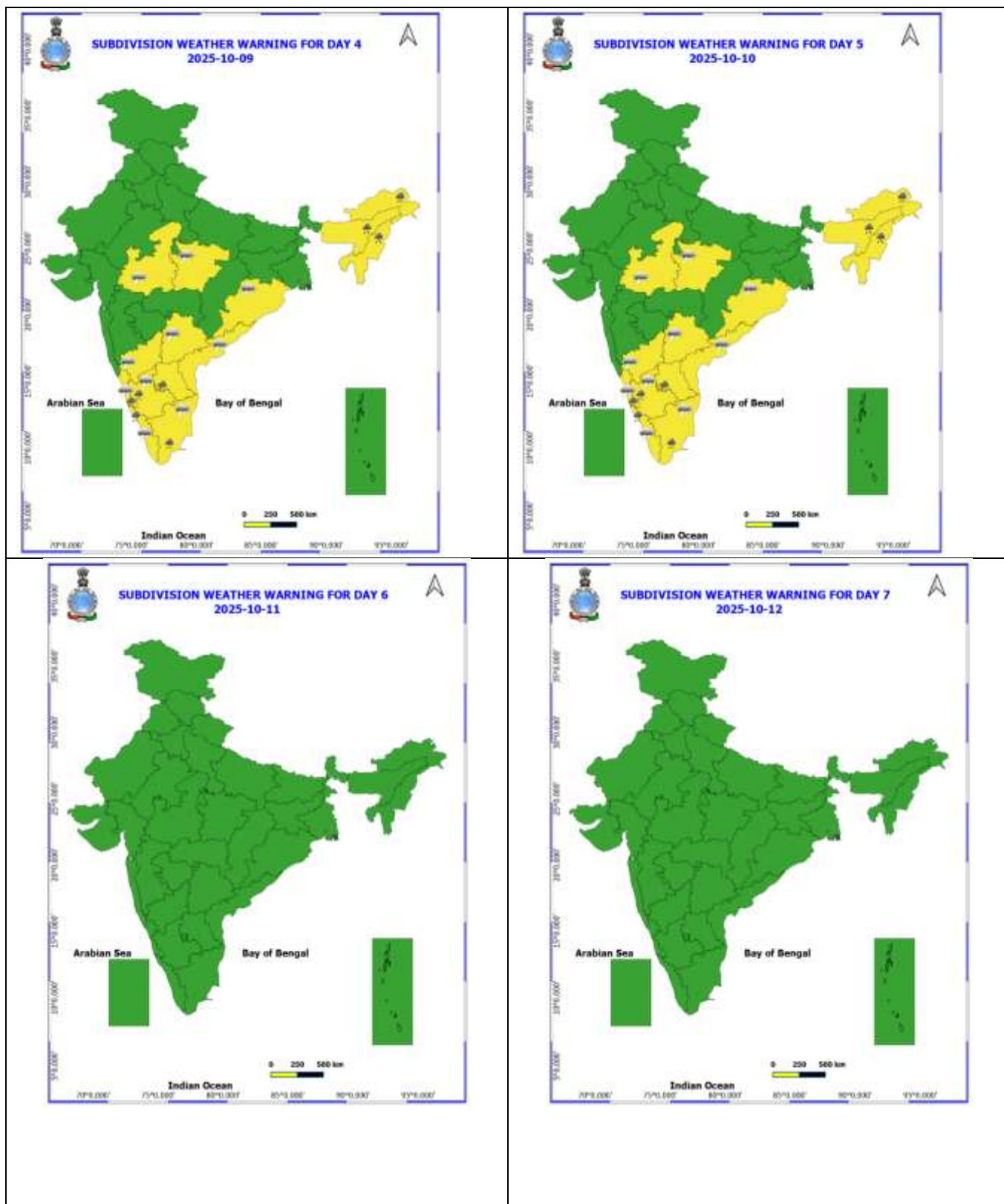


Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	6- Oct	7- Oct	8- Oct	9- Oct	10- Oct	11- Oct	12- Oct
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	FWS	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	SCT	SCT	FWS	FWS	SCT	SCT	ISOL
3	ASSAM & MEHGHALAYA	FWS	FWS	FWS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

- 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 06th to 09th October 2025**Past Weather:**

There has been appreciable fall in minimum temperature and no large change in maximum temperature in past 24 hours over Delhi. The minimum temperatures are in the range of 18-21°C and maximum temperatures were in the range of 32-34°C. The minimum temperatures are below normal by 01-04°C and maximum temperatures were near normal over Delhi. Generally cloudy sky conditions with predominant surface wind from the north-westerly direction with wind speeds up to 15 kmph prevailed during the past 24 hours. Light to Moderate 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:

06.10.2025: Generally cloudy sky. A few spells of light to moderate rain at many places accompanied with thunderstorm/lighting and gusty winds speed of 30-40 kmph reaching upto 50 kmph. The maximum temperatures over Delhi are likely to be in the range of 28 to 30°C. The maximum temperature will be below normal by 1-2 °C. The predominant surface wind will likely be from the north-northwest direction with a wind speed of upto 15 kmph during afternoon and will gradually increase upto 20 kmph from the northeast direction during evening and night.

07.10.2025: Generally cloudy sky. One or two spells of light to moderate rain at many places accompanied with thunderstorm/lighting and gusty winds speed of 30-40 kmph reaching upto 50 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 30 to 32°C and 20 to 22 °C respectively. The minimum temperature will be near normal and the maximum temperature will be above normal by 1-2 °C. The predominant surface wind will likely to be from the north-northeast direction with a wind speed of upto 15 kmph during morning. Easterly winds with a wind speed of less than 10 kmph will prevail in the afternoon hours. It will gradually decrease to less than 8 kmph from the southeast direction during evening and night.

08.10.2025: Partly cloudy 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 northeast 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.

Impact & Action Suggested due to

❖ **Very heavy rainfall** over Jammu-Kashmir, Himachal Pradesh, Punjab on 06th October.

Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutchha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landslips/mudslips/landsinks/mudsinks.
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments mainly over Bihar, Jharkhand and West Bengal (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 Hailstorm over

- Isolated **hailstorm** activity is also likely over Uttarakhand, Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh, Rajasthan on 06th October.

Impact expected:

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Minor damage to kutchha houses/walls and huts.

Action suggested:

- 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 / Heavy to Very Heavy / Extremely Heavy Rainfall

- In **Jammu & Kashmir**, keep the harvested produce of rice and maize in safer places. Avoid sowing of rapeseed and radish during heavy rainfall. Make necessary arrangements to 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**, make necessary arrangements to drain out excess water from fields of rice, maize, green gram, sugarcane, groundnut and vegetables.
- In **Assam**, ensure proper drainage of excess water from fields of *Sali* rice, black gram, green gram and vegetables.
- In **Meghalaya**, drain out excess water from fields of standing crops, vegetables and fruit orchards.
- In **Nagaland**, ensure adequate drainage facilities around vegetable nurseries and also provide shade net to reduce the adverse impact of rainfall on the seedlings.

- In **Sub-Himalayan West Bengal**, drain out excess water from fields of rice, black gram, green gram, finger millet, ginger, vegetables and fruit orchards. In **Gangetic West Bengal**, drain out excess water from fields of rice, groundnut, vegetables and betel vine gardens.

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.

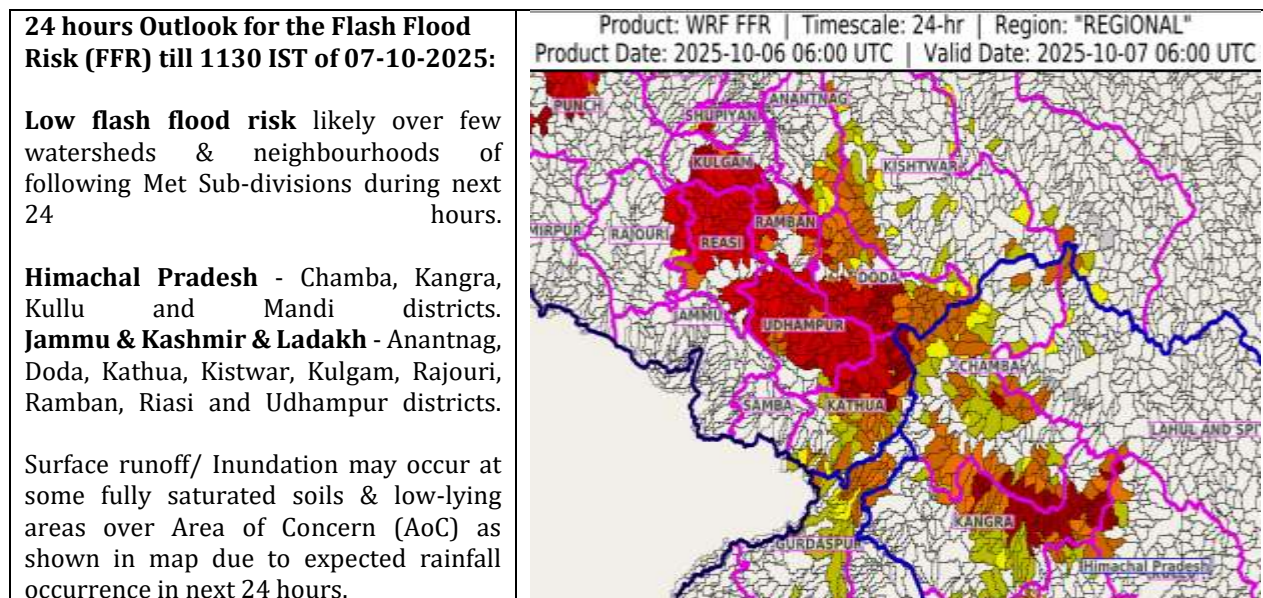
Agromet advisories for likely impact of Thunderstorm / Hailstorm / Gusty Winds / Squally Winds

- Use hail net or hail cap in fruit orchards and vegetable crops to prevent mechanical damage due to hail.
- 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.

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.

Flash Flood Guidance



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

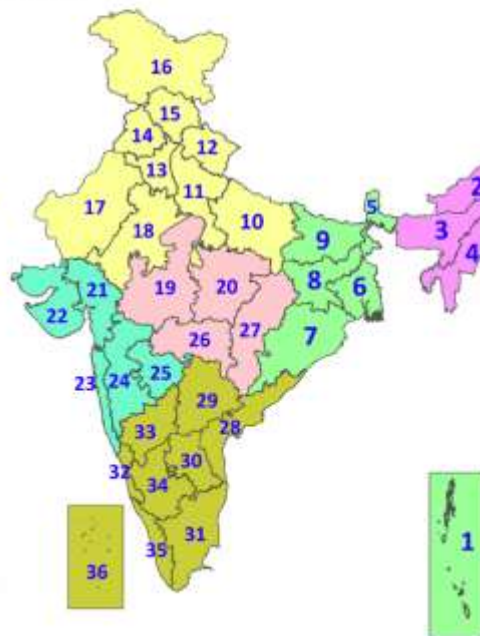
32. तटीय कर्नाटक

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".

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(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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