



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 01st October, 2025

Time of Issue: 1330 hours IST

Subject: (i) Under the influence of likely formation of depression over westcentral Bay of Bengal, isolated heavy to very heavy rainfall likely over east India during 02nd-05th October with isolated extremely heavy rainfall over Odisha on 02nd October.
(ii) A fresh intense western disturbance is likely to affect Northwest India during 05th-07th October with peak intensity on 06th October.

Realised weather during past 24 hours till 0830 hours IST of today, the 01st October, 2025:

- ❖ **Heavy to very heavy rainfall (7-11 cm)** has been recorded at isolated places over Assam, Nagaland, Sub-Himalayan West Bengal, West Uttar Pradesh and East Rajasthan.
 - ❖ **Heavy rainfall (7-11 cm)** has been recorded at isolated places over Arunachal Pradesh, Gangetic West Bengal, Nicobar Islands, Jharkhand, West Rajasthan, Madhya Pradesh, Delhi and Coastal Karnataka.
- 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](#))

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

- ❖ Under the influence of **cyclonic circulation** over Eastcentral Bay of Bengal & neighbourhood; a low-pressure area has formed over central Bay of Bengal at 1730 hrs IST of 30th September. It concentrated into a **Well Marked Low Pressure Area** over westcentral Bay of Bengal at 0530 hrs IST of today and lay over the same region at 0830 hrs IST of today, the 01st October 2025. It is likely to continue to move north-northwestwards and concentrate into a **Depression** over the same region during next 12 hours. Continuing to move further north-northwestwards, it is likely to intensify further into a **deep depression** and cross South Odisha- North Andhra Pradesh coasts during early morning of 3rd October.
- ❖ Yesterday's **well-marked low-pressure** area over Gulf of Kutch & neighbourhood lay over northeast Arabian Sea and adjoining Saurashtra coast at 0830 hours IST of today, the 01st October, 2025. It is likely to move nearly westwards and intensify into a **Depression** during next 12 hours over northeast Arabian Sea. It would move west-southwestwards thereafter towards northwest Arabian Sea.
- ❖ A **trough** runs from cyclonic circulation associated with **well-marked low-pressure area** over northeast Arabian sea and adjoining Saurashtra coast to southwest Uttar Pradesh across east Rajasthan at lower tropospheric levels.
- ❖ An upper air **cyclonic circulation lay** over northeast Assam and another over central Assam & neighbourhood at lower tropospheric levels.
- ❖ A fresh intense **Western Disturbance** likely to affect northwest India from 04th October 2025.

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

East & Central India:

- ❖ Light to moderate rain/thunderstorm at most/many places with isolated **heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim, Bihar during 01st-06th; Gangetic West Bengal, Chhattisgarh during 01st-04th; Jharkhand during 02nd-04th; Odisha during 01st-03rd; West Madhya Pradesh on 03rd & 04th; East Madhya Pradesh

on 01st, 03rd & 04th October with **isolated very heavy rainfall over Gangetic West Bengal, Odisha and Chhattisgarh on 02nd & 03rd; Jharkhand on 03rd; Sub-Himalayan West Bengal & Sikkim on 01st, 03rd & 04th; Bihar during 03rd-05th October.**

- ❖ Isolated **extremely heavy rainfall** likely over Odisha on 02nd October.
- ❖ Thunderstorm & gusty winds (speed reaching 40-50 kmph) very likely over Andaman & Nicobar Islands during next 2 days; (speed reaching 30-40 kmph) very likely over Bihar during next 7 days; West Bengal, Jharkhand, Odisha during next 5 days.

Northeast India:

- ❖ Light/moderate rain/thunderstorm at many/some places with isolated **heavy rainfall** likely over the region during next 3-4 days with **very heavy rainfall** over Assam & Meghalaya during 01st-03rd and Tripura on 01st October.

South Peninsular India:

- ❖ Light to moderate rain/thunderstorm at many/some places with isolated **heavy rainfall** likely over Tamil Nadu during 02nd-04th and **heavy to very heavy rainfall** over Coastal Andhra Pradesh & Yanam on 01st & 02nd October.
- ❖ Strong surface winds (speed reaching 30-40 kmph) very likely over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Tamil Nadu during 01st-05th October.

Northwest India:

- ❖ Isolated to scattered rainfall very likely over Northwest India during 01st-04th and increase thereafter with fairly widespread to widespread rainfall accompanied with thunderstorm & lightning during 05th-07th October.
- ❖ isolated **heavy rainfall** likely over East Uttar Pradesh during 03rd-06th; Jammu-Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh on 06th & 07th; Rajasthan on 01st, 05th & 06th October with **very heavy rainfall** over East Uttar Pradesh on 04th & 05th; Jammu-Kashmir, Himachal Pradesh, Punjab, Haryana on 06th and Uttarakhand on 06th & 07th October.
- ❖ Isolated **hailstorm** activity is also likely over Jammu-Kashmir, Himachal Pradesh, Uttarakhand on 05th & 06th; Punjab, Haryana and Uttar Pradesh on 06th October.

West India:

- ❖ Light to moderate rain/thunderstorm at most/many places with **heavy rainfall** likely over Saurashtra & Kutch on 01st & 02nd October; ghat areas of Madhya Maharashtra & Marathwada on 04th October.

Fishermen warnings:

Fishermen are advised not to venture into the following areas during 01st October to 06th October:

Arabian Sea:

- Gujarat coast during 01st October to 06th October; many parts of northeast & adjoining eastcentral Arabian Sea during 01st October to 03rd October; entire northeast Arabian Sea & adjoining, many parts of northwest Arabian Sea, some parts of central Arabian Sea during 03rd to 06th October; along and off Somalia coast and adjoining sea areas during 02nd October to 06th October.

Bay of Bengal:

- Andhra Pradesh coast during 01st October to 04th October, north Andhra Pradesh coast on 04th October; Sri Lanka coast 01st October to 02nd October, Gulf of Mannar & adjoining Comorin area during 01st October to 04th October; and over most parts of Bay of Bengal on 01st October; over north, central & adjoining south Bay of Bengal on 02nd & 03rd October; many parts of westcentral Bay of Bengal and most parts of north Bay of Bengal on 04th October.
- Along and off Odisha, West Bengal, Bangladesh coasts during 01st to 05th October, Myanmar coast during 01st to 04th October.
- Andaman Sea during 01st October to 03rd October.

ii. Weather conditions and forecast over Delhi/NCR during 01st to 04th 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>

Rainfall recorded (in cm) during past 24 hours till 0830 hours IST of today, the 01st October (≥ 7 cm):

Nagaland, Manipur, Mizoram & Tripura: Mangkolemba (dist Mokokchung) 19; Bagafa (dist South Tripura) 18; Belonia (dist South Tripura), Belonia ARG (dist South Tripura) 14 Each; Gandechehra (dist Dhalai) 11; Tuli Nsdma AWS (dist Mokokchung) 9; Teliamura ARG (dist Khowai), Amarpur ARG (dist Gomati) 8 Each;

West Uttar Pradesh: Kalpi CWC (dist Jalaun) 13; Jasrana (dist Firozabad), Orai (dist Jalaun) 9 Each;

Assam & Meghalaya: Mohanbari AWS (dist Dibrugarh) 12; D/Mohanbari AP (dist Dibrugarh) 11; Tezpur (dist Sonitpur) 10; Chouldhuwaghat ARG (dist Lakhimpur), Bajali AWS (dist Bajali), Silchar (dist Cachar) 7 Each;

Sub Himalayan West Bengal & Sikkim: Raiganj PTO (dist North Dinajpur) 12;

East Rajasthan: Viratnagar Sr (dist Jaipur) 12, Sapau Sr (dist Dholpur) 11, Sarmathura Sr (dist Dholpur) 11, Shahpura Sr (dist Jaipur) 10, Sanganer Tehsil Sr (dist Jaipur) 10, Bonli (dist Sawai Madhopur) 10, Chomu (dist Jaipur) 10, Mangliawas Sr (dist Ajmer) 9, Mandrayal Sr (dist Karauli) 7, Rajakhara (dist Dholpur) 7, Jaipur Tehsil Sr (dist Jaipur) 7,

Coastal Karnataka: Yellapur (dist Uttara Kannada) 10;

Arunachal Pradesh: Deomali AWS (dist Tirap) 10; Miao (dist Changlang) 7;

West Madhya Pradesh: Morena-aws (dist Morena) 9; Gohad (dist Bhind) 7;

East Uttar Pradesh: Tirwa (dist Kannauj) 8; Kannauj(t) (dist Kannauj) 7;

Delhi: Ayanagar AWS (dist South Delhi), Dhansa (dist South West Delhi), Aya Nagar (dist South Delhi) 7 Each;

Jharkhand: Hazaribagh Dvc (dist Hazaribagh) 7;

Gangetic West Bengal: Uluberia (dist Howrah) 7;

Andaman & Nicobar Islands: Car Nicobar (dist Nicobar) 7.

West Rajasthan: Nawa (dist Nagaur) 7,

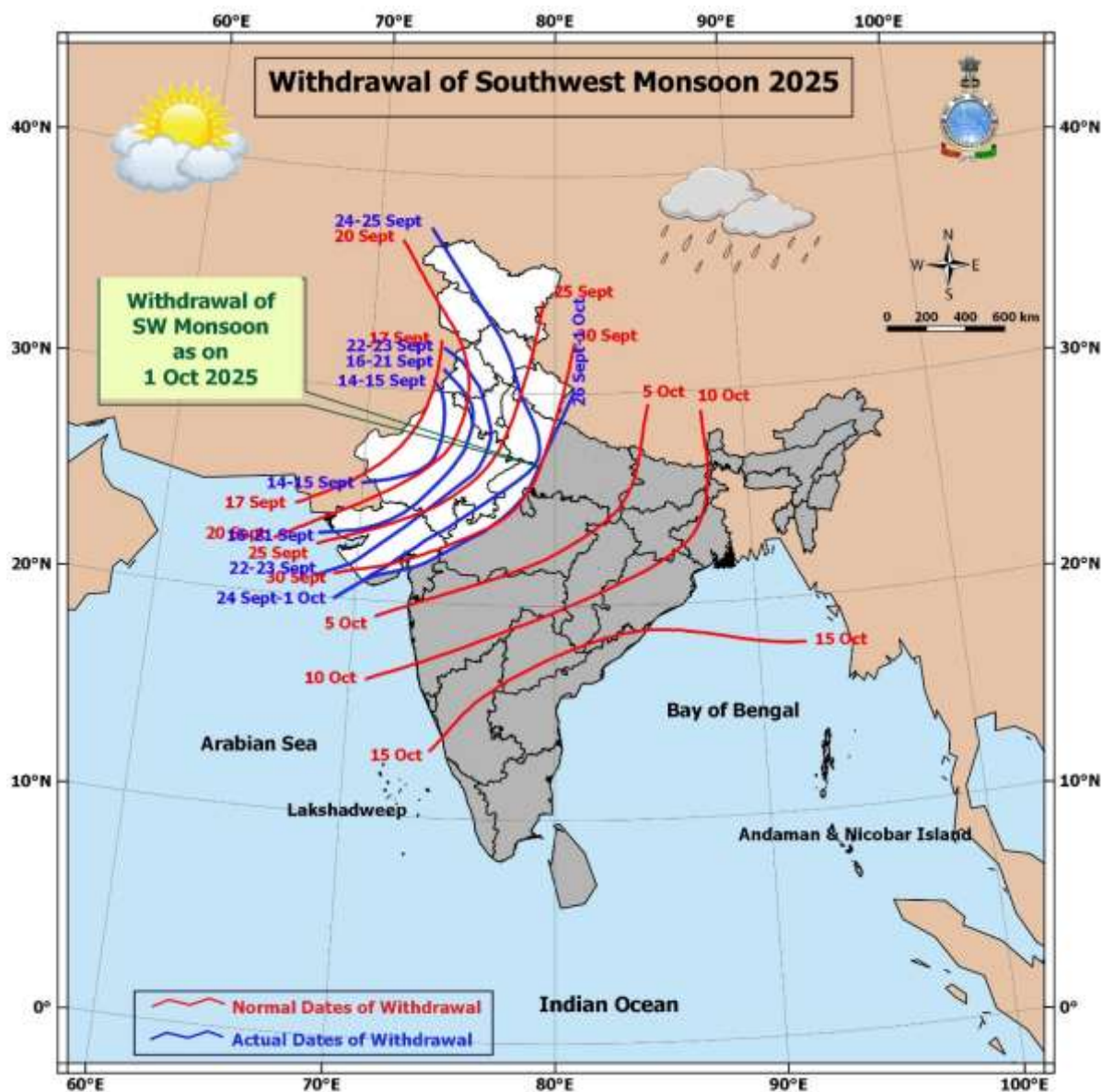
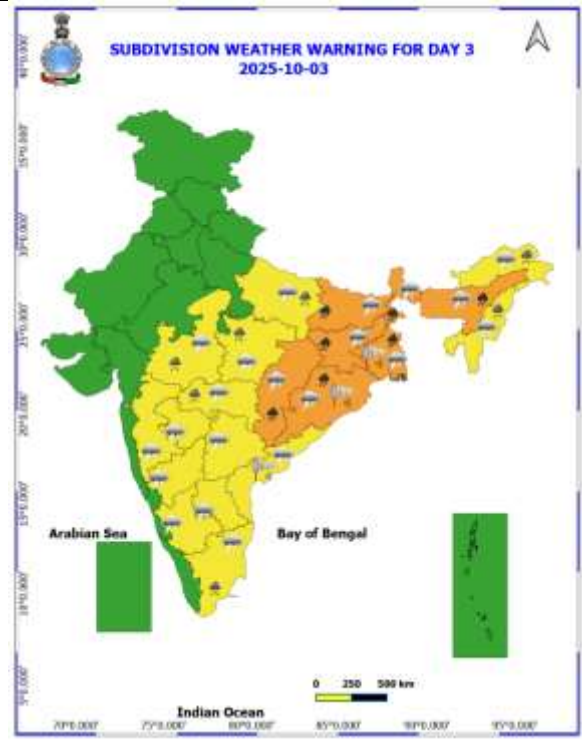
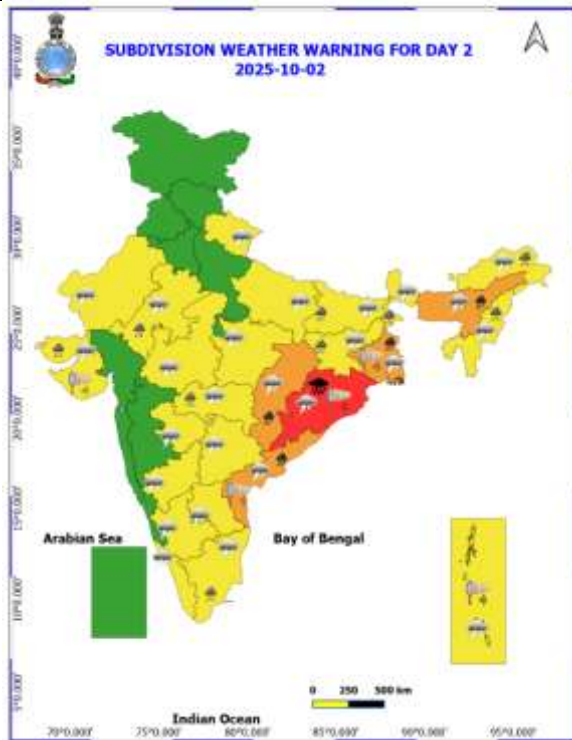
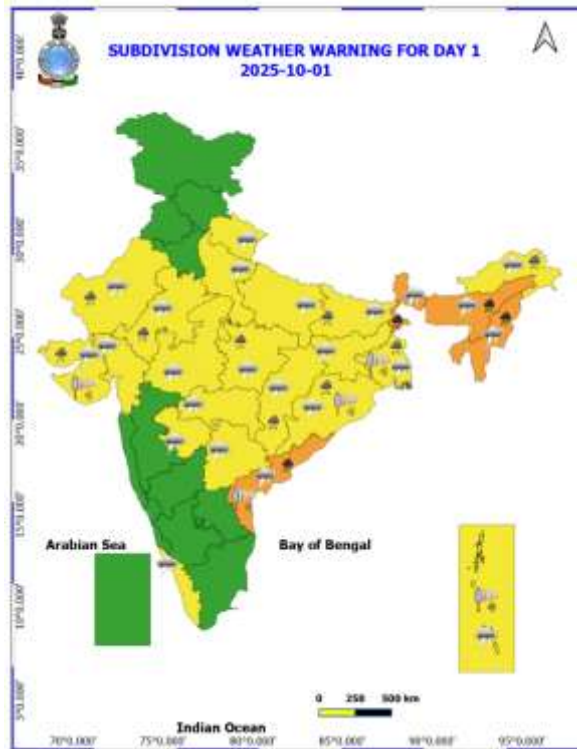
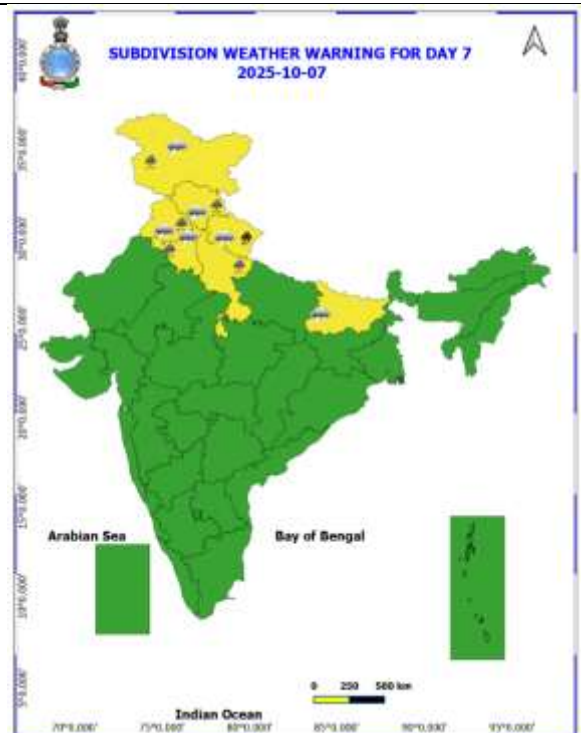
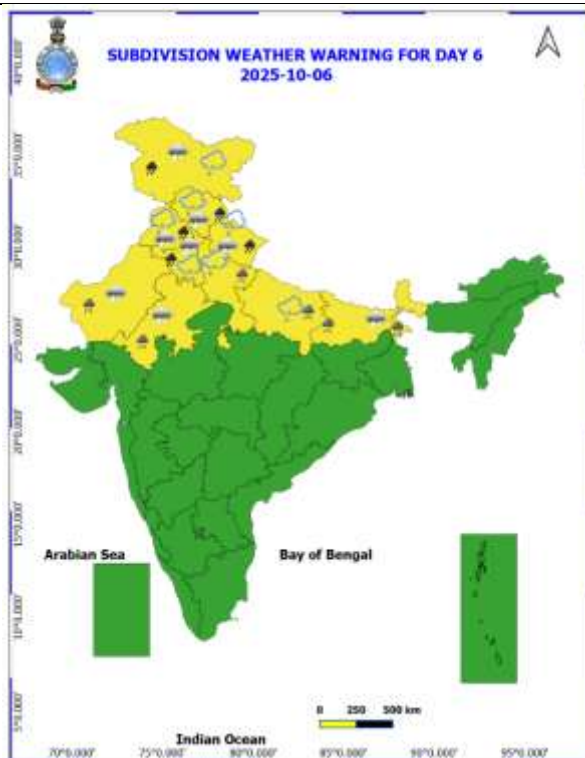
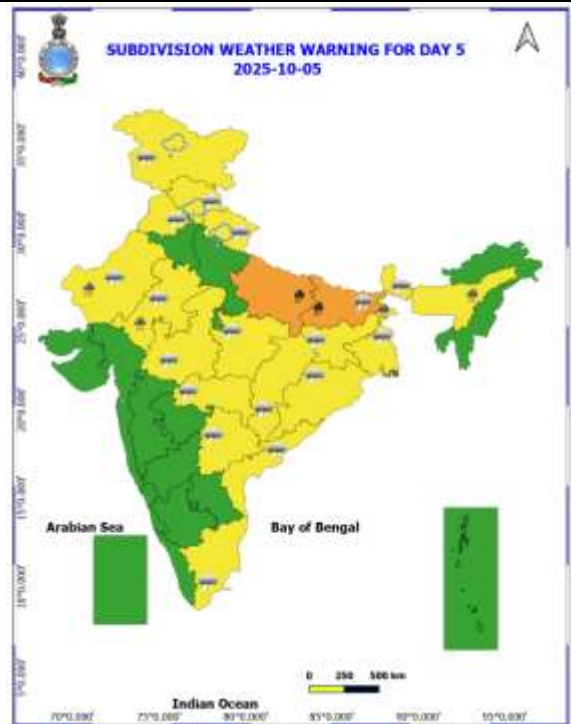
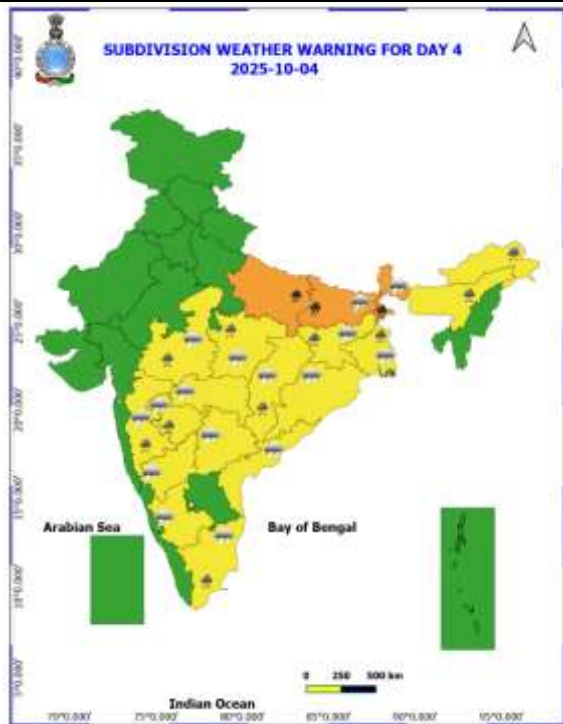
Annexure II

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

Weather forecast over Delhi/NCR during 01st to 04th October 2025

Past Weather:

There has been fall in the minimum temperature up to 3 - 5°C and fall in maximum temperature up to 1 - 3°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi were around 32 to 34°C and 22 to 24°C respectively. The minimum temperature was near normal and maximum temperature was below normal up to 1 - 3°C. Generally cloudy sky conditions with predominant surface wind from the southeast direction with wind speeds up to 18 kmph gusting to 30 kmph prevailed during the past 24 hours. Moderate rain/thunderstorms at most places with heavy rain at isolated places has been recorded in Delhi. Generally cloudy sky conditions with a wind speed of less than 10 kmph from the southeast direction prevailed over the region in the forenoon today.

Weather Forecast:

01.10.2025: Generally cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 32 to 34°C. The maximum temperature will be near normal. The predominant surface wind will likely to be from the southeast direction with a wind speed of up to 10-15 kmph during afternoon hours. The wind speed will decrease becoming less than 12 kmph from the southeast direction during the evening and night.

02.10.2025: Generally cloudy sky. One or two spells of very light to light rain with thunderstorms towards afternoon/evening. The maximum and minimum temperatures over Delhi are likely to be in the range of 32 to 35°C and 24 to 26°C respectively. The minimum temperature will be above normal up to 1 - 2°C and the maximum temperature will be near normal. The predominant surface wind will likely to be from the southeast direction with a wind speed of up to 08-12 kmph during morning hours. The wind speed will gradually increase becoming less than 15 kmph from the southeast direction in the afternoon. The wind speed will decrease becoming less than 10 kmph from the southeast direction during the evening and night.

03.10.2025: Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 33 to 35°C and 24 to 26°C respectively. The minimum temperature will be above normal up to 1 - 2°C and the maximum temperature will be near normal. The predominant surface wind will likely to be from the east direction with a wind speed of up to 08-12 kmph during morning hours. The wind speed will gradually increase becoming less than 15 kmph from the east direction in the afternoon. The wind speed will decrease becoming less than 12 kmph from the southeast direction during the evening and night.

04.10.2025: Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 34 to 36°C and 24 to 26°C respectively. The minimum temperature will be above normal up to 1 - 2°C and the maximum temperature will be above normal up to 1 - 2°C. The predominant surface wind will likely to be from the east direction with a wind speed of up to 10 - 15 kmph during morning hours. The wind speed will gradually decrease becoming less than 10 kmph from the southeast direction in the afternoon. The wind speed will increase becoming less than 15 kmph from the southeast direction during the evening and night.

Impact & Action Suggested due to

❖ **Extremely heavy rainfall likely at isolated places over Odisha on 02nd October.**

❖ **Very heavy rainfall (12-20 cm)** at isolated places over very heavy rainfall over Jharkhand, Odisha on 03rd; Gangetic West Bengal, Chhattisgarh on 02nd & 03rd; Sub-Himalayan West Bengal & Sikkim on 01st, 03rd & 04th; Bihar during 03rd-05th; Assam & Meghalaya during 01st-03rd; Tripura on 01st; Coastal Andhra Pradesh & Yanam on 01st & 02nd East Uttar Pradesh on 04th & 05th; Jammu-Kashmir, Himachal Pradesh, Punjab, Haryana on 06th and Uttarakhand on 06th & 07th October.

Impact Expected

- Water logging/ flooding in many parts of low lying area and river banks
- Localized and short term disruption to municipal services (water, electricity, etc.)
- Major disruption of traffic flow. Major roads/local trains affected.
- Possibility of danger to very old buildings and unmaintained structures, falling of trees etc
- Closure of roads crossing low water bridges.

Action Suggested

- Traffic may be regulated effectively
- People in the affected area may restrict their movement.

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

- In **Odisha**, make provision to drain out excess water from fields of rice, finger millet, maize, pulses, groundnut, cotton, sesame, vegetables and fruit orchards. Make arrangement for covering vegetables nurseries like chilli, okra and brinjal with plastic cover or polythene sheet.
- In **Sub-Himalayan West Bengal**, undertake harvesting of matured crops of cardamom, chilli (dalley khorsani) and matured fruits of kiwi and shift the produce to safer places to avoid losses. Make necessary arrangements to drain out excess water from fields of rice, black gram, green gram, ginger, vegetables and fruit orchards. In **Gangetic West Bengal**, make provision to drain out excess water from the fields of rice, groundnut, vegetables and betel vine gardens.
- In **Bihar**, make necessary arrangements to drain out excess water from fields of rice, maize and vegetables.
- In **Chhattisgarh**, provide adequate drainage facilities in fields of rice, pigeon pea, black gram, maize and soybean.
- In **Coastal Andhra Pradesh**, provide adequate drainage facilities in fields of rice, maize, pigeon pea, black gram, cotton, sugarcane, groundnut, turmeric, vegetables and plantations of coconut, arecanut, banana, coffee and black pepper.
- In **Arunachal Pradesh**, harvest matured crops such as rice, maize, vegetables and finger millet and shift the produce to properly covered shelter to avoid losses. Avoid fresh sowing of field pea and transplanting of cabbage **during heavy rainfall** and ensure proper drainage in already sown / transplanted fields.
- In **Assam**, make provision to drain out excess water from fields of *Sali* rice, black gram, green gram and vegetables. Avoid sowing of cabbage and transplanting of cauliflower during heavy rainfall.
- In **Meghalaya**, maintain proper drainage in ginger, vegetable fields and fruit orchards.
- In **Nagaland**, continue harvesting of sesame, ginger, Naga King chilli, brinjal and early sown *Jhum* rice and keep the harvested produce in safe place.

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

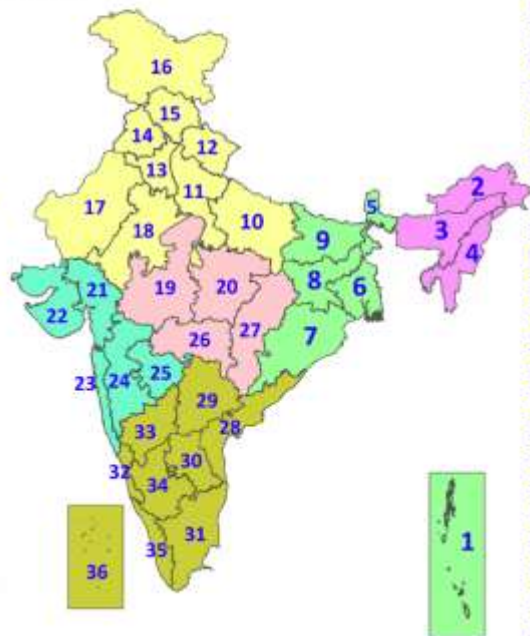
32. तटीय कर्नाटक

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

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Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

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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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