



Tuesday, October 03, 2023
Time of Issue: 1945 hours IST
(NIGHT)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Withdrawal of Southwest Monsoon:

- ✓ Today, the Southwest Monsoon has withdrawn from some more parts of Uttarakhand, West Uttar Pradesh, & West Madhya Pradesh; remaining parts of Rajasthan, and some parts of Gujarat state.
- ✓ The line of withdrawal of Southwest Monsoon continues to pass through Gulmarg, Dharamshala, Mukteshwar, Pilibhit, Orai, Ashoknagar, Indore, Baroda and Porbandar.
- ✓ Conditions are becoming favourable for further withdrawal of Southwest Monsoon from remaining parts of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, West Madhya Pradesh, Gujarat state; some parts of East Uttar Pradesh, East Madhya Pradesh, Maharashtra during next 2-3 days.

Significant Weather features:

- ✓ The **Low Pressure Area** lies over southeast Jharkhand & neighbourhood, which is very likely to cause light/moderate over many parts with **isolated heavy to very heavy rainfall** over Bihar, West Bengal & Sikkim, Jharkhand and north Odisha on 03rd & 04th October and over Arunachal Pradesh, Assam & Meghalaya and Mizoram & Tripura during 04th-06th October, 2023.

Weather Forecast and Warnings:

East India: Rainfall warning: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Jharkhand and north Odisha on 03rd & 04th; over Bihar and West Bengal & Sikkim during 03rd to 05th; over Andaman & Nicobar Islands during 03rd to 07th October. **Isolated very heavy rainfall very likely over Jharkhand and north Odisha on 03rd and West Bengal & Sikkim on 03rd & 04th October.**

Central India: Light/moderate scattered to fairly widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over north Chhattisgarh on 03rd October.

Northeast India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Assam & Meghalaya during 03rd-07th; Arunachal Pradesh during 03rd-06th and over Nagaland, Manipur, Mizoram & Tripura during 03rd-05th October.

Northwest India: Light/moderate scattered rainfall with **isolated heavy to very heavy rainfall** very likely over southeast Uttar Pradesh on 03rd October. Isolated rainfall also likely over Western Himalayan Region during next 24 hours.

South India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely over ghat areas of Tamil Nadu and Kerala on 03rd October.

Isolated very heavy rainfall very likely over south Kerala today.

West India: No significant weather over the region during next 5 days.

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of today): **at many places** over Kerala & Mahe, Jharkhand, Sub-Himalaya West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura; **at a few places** over East Uttar Pradesh, Chhattisgarh, Bihar, Odisha, Gangetic West Bengal and **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Gujarat Region, Madhya Pradesh, Maharashtra, Telangana, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Lakshadweep and Andaman & Nicobar Islands.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST to 1730 hours IST of today): **Heavy to very heavy rainfall** at isolated places over Kerala.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of today) (in cm): **Kerala:** Thiruvananthapuram-12, Vellayani-11, Neyyattinkara-6, Thirupathisaram-3; **East Uttar Pradesh:** Kushinagar-6, Kashia-2; **Odisha:** Cuttack-5, Keiri, Bari, Tigiria & Panipolia-2 each; **Jharkhand:** Pakur, Ramgarh, Palamu & Simdega-2 each; **Assam & Meghalaya:** Barpeta-3, Chandrapur-2; **Chhattisgarh:** Ramanujganj-6, Balrampur-3, Gariaband and Dantewada-2 each; **Gangetic West Bengal:** Kolkata-3; **Arunachal Pradesh:** Itanagar (Dist Papumpare)10; **Bihar:** Chenari (dist Rohtas) 8; **Sikkim:** Ravangla and Soreng-2 each; **Uttarakhand:** Chamoli-2; **Tripura:** Bagafa-2; **Bihar:** Dehri-3, Katihar and Banka-2 each; **Nagaland:** Sakshi-2.
- ❖ **Minimum Temperature Departures (as on 03-10-2023):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at a few places over East Madhya Pradesh; at isolated places over Madhya Maharashtra, Marathwada, East Uttar Pradesh, Himachal Pradesh, Sub-Himalaya West Bengal & Sikkim; **above normal (1.6°C to 3.0°C)** at a few places over Vidarbha, Telangana, Chhattisgarh, Bihar; at isolated places over Uttarakhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura. They are **markedly below normal (-5.0°C or less)** at isolated places over Haryana-Chandigarh-Delhi; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over West Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at isolated places over West Madhya Pradesh, Rajasthan, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gangetic West Bengal and **near normal** over rest parts of the country. Today, **the lowest minimum temperature of 16.2°C** is reported at **Hisar (Haryana)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 03-10-2023):** Maximum temperatures are **above normal (1.6°C to 3.0°C)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Uttarakhand, Punjab, East Rajasthan and Telangana. They are **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Gangetic West Bengal; at isolated places over Chhattisgarh, Jharkhand and Odisha; **below normal (-1.6°C to -3.0°C)** at a few places over Sub-Himalaya West Bengal & Sikkim; at isolated places over Bihar and East Madhya Pradesh and **near normal** over rest parts of the country. Today, **the highest maximum temperature of 39.7°C** is reported at **Jaisalmer (West Rajasthan)**.

* Red color warning does not mean "Red Alert" Red color 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)

Meteorological Analysis (Based on 1730 hours IST)

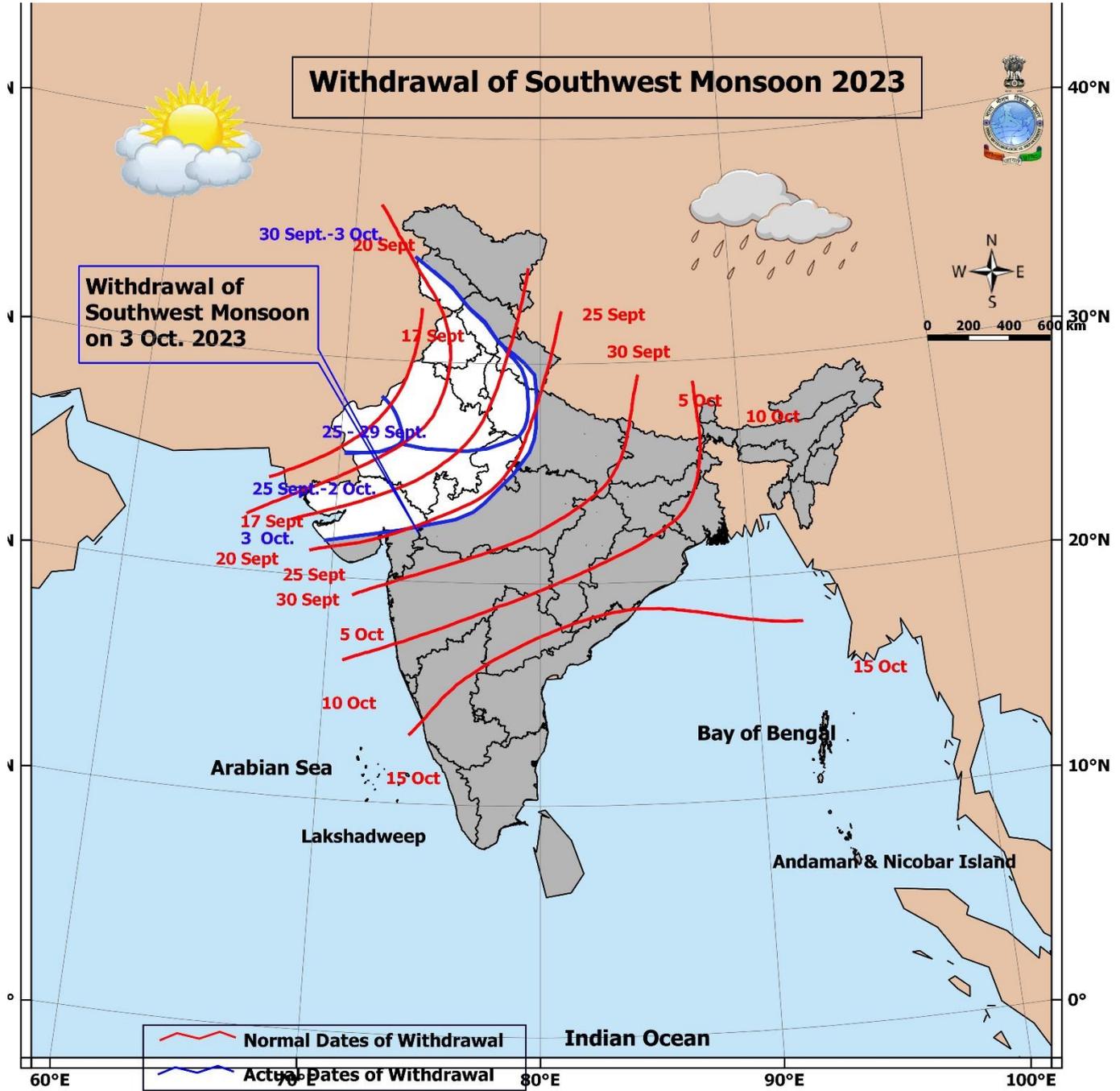
- ❖ Today, the Southwest Monsoon has withdrawn from some more parts of Uttarakhand, West Uttar Pradesh, & West Madhya Pradesh; remaining parts of Rajasthan, and some parts of Gujarat state.
- ❖ The **line of withdrawal of Southwest Monsoon** continues to pass through Gulmarg, Dharamshala, Mukteshwar, Pilibhit, Orai, Ashoknagar, Indore, Baroda and Porbandar.
- ❖ Conditions are becoming favourable for further withdrawal of Southwest Monsoon from remaining parts of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, West Madhya Pradesh, Gujarat state; some parts of East Uttar Pradesh, East Madhya Pradesh, Maharashtra during next 2-3 days.
- ❖ The **Low Pressure Area** over southeast Jharkhand & neighbourhood with the associated cyclonic circulation extending upto 7.6 km above mean sea levels tilting southwards with height persists.
- ❖ The **trough** from south Jharkhand to Telangana across Odisha and Chhattisgarh extending upto 3.1 km above mean sea level persists.
- ❖ The **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 74°E to the north of Lat. 30°N persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 08th October, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ❖ No significant change in maximum temperatures likely over most parts of country during next 5 days.

Weather Outlook for subsequent 2 days

- ❖ Scattered to fairly widespread light/moderate rainfall likely over parts of East & Northeast India and Islands.
- ❖ Isolated rainfall likely over parts of South peninsular India. Dry weather likely to prevail over rest parts of the country.



* Red color warning does not mean "Red Alert" Red color 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)



Table-1

7 Days Rainfall Forecast								
S. No.	Subdivision	03-Oct	04-Oct	05-Oct	06-Oct	07-Oct	08-Oct	09-Oct
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	FWS	FWS	WS	WS	FWS	SCT	SCT
3	ASSAM & MEGHALAYA	FWS	WS	WS	FWS	FWS	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	FWS	WS	WS	FWS	SCT	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	WS	WS	WS	SCT	SCT
6	GANGETIC WEST BENGAL	WS	WS	WS	WS	FWS	SCT	ISOL
7	ODISHA	WS	WS	FWS	SCT	SCT	ISOL	ISOL
8	JHARKHAND	WS	WS	WS	FWS	FWS	ISOL	ISOL
9	BIHAR	WS	WS	FWS	FWS	SCT	ISOL	ISOL
10	EAST UTTAR PRADESH	FWS	SCT	ISOL	ISOL	DRY	DRY	ISOL
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	DRY	DRY	DRY	ISOL	DRY
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	DRY	DRY	DRY	DRY	ISOL	DRY
16	JAMMU & KASHMIR AND LADAKH	SCT	DRY	DRY	DRY	DRY	ISOL	DRY
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	SCT	SCT	ISOL	ISOL	DRY	DRY	DRY
21	GUJARAT REGION	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY
25	MARATHAWADA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY
27	CHHATTISGARH	FWS	FWS	SCT	SCT	ISOL	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	SCT	ISOL	ISOL	DRY	DRY
29	TELANGANA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	SCT	SCT	SCT	ISOL	ISOL	SCT	SCT
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
35	KERALA & MAHE	WS	FWS	SCT	SCT	ISOL	ISOL	ISOL
36	LAKSHADWEEP	WS	FWS	SCT	SCT	SCT	SCT	SCT

Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

* Red color warning does not mean "Red Alert" Red color 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)

Fig. 1: Maximum Temperatures Dated 03.10.2023

Fig. 2: Departure of Maximum Temp. Dated 03.10.2023

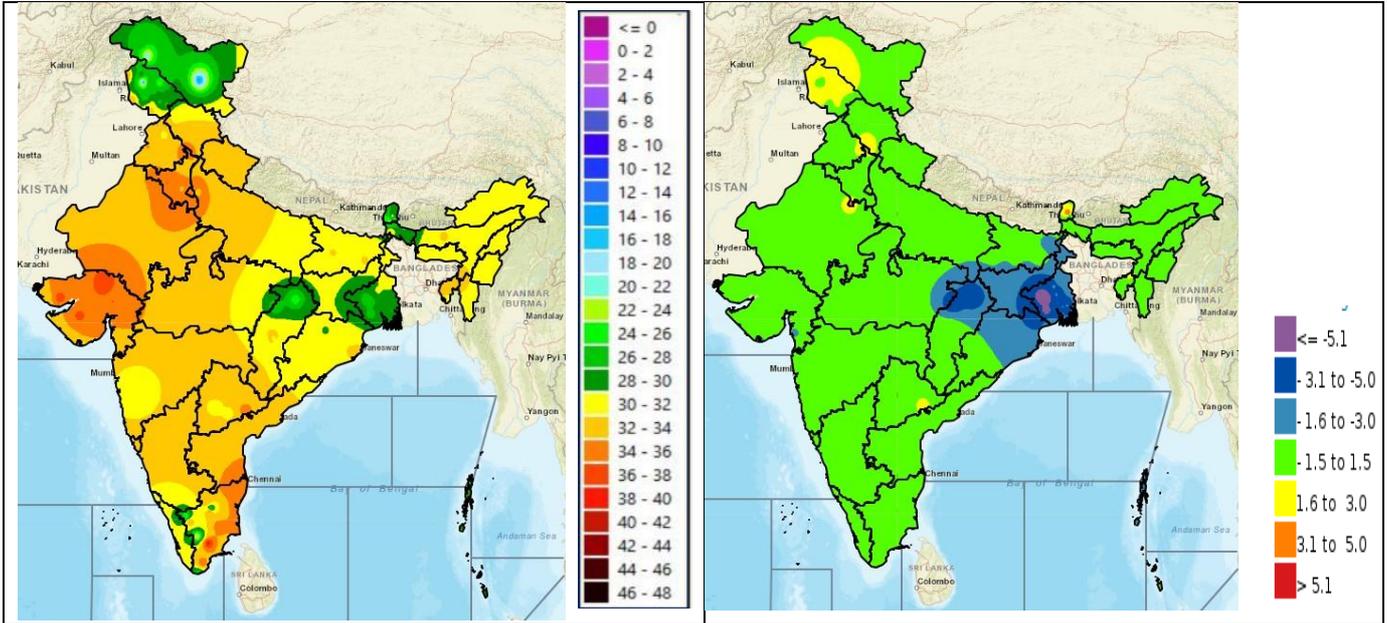


Fig. 3: Minimum Temperatures Dated 03.10.2023

Fig. 4: Departure of Minimum Temp. Dated 03.10.2023

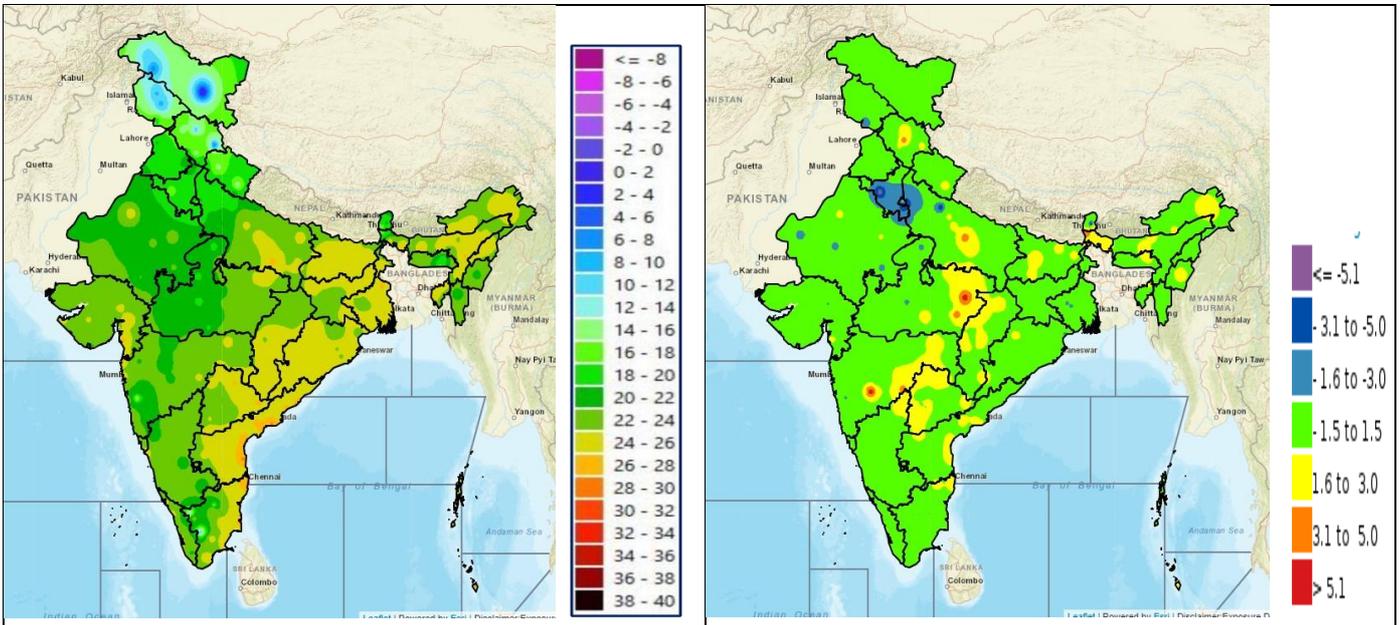
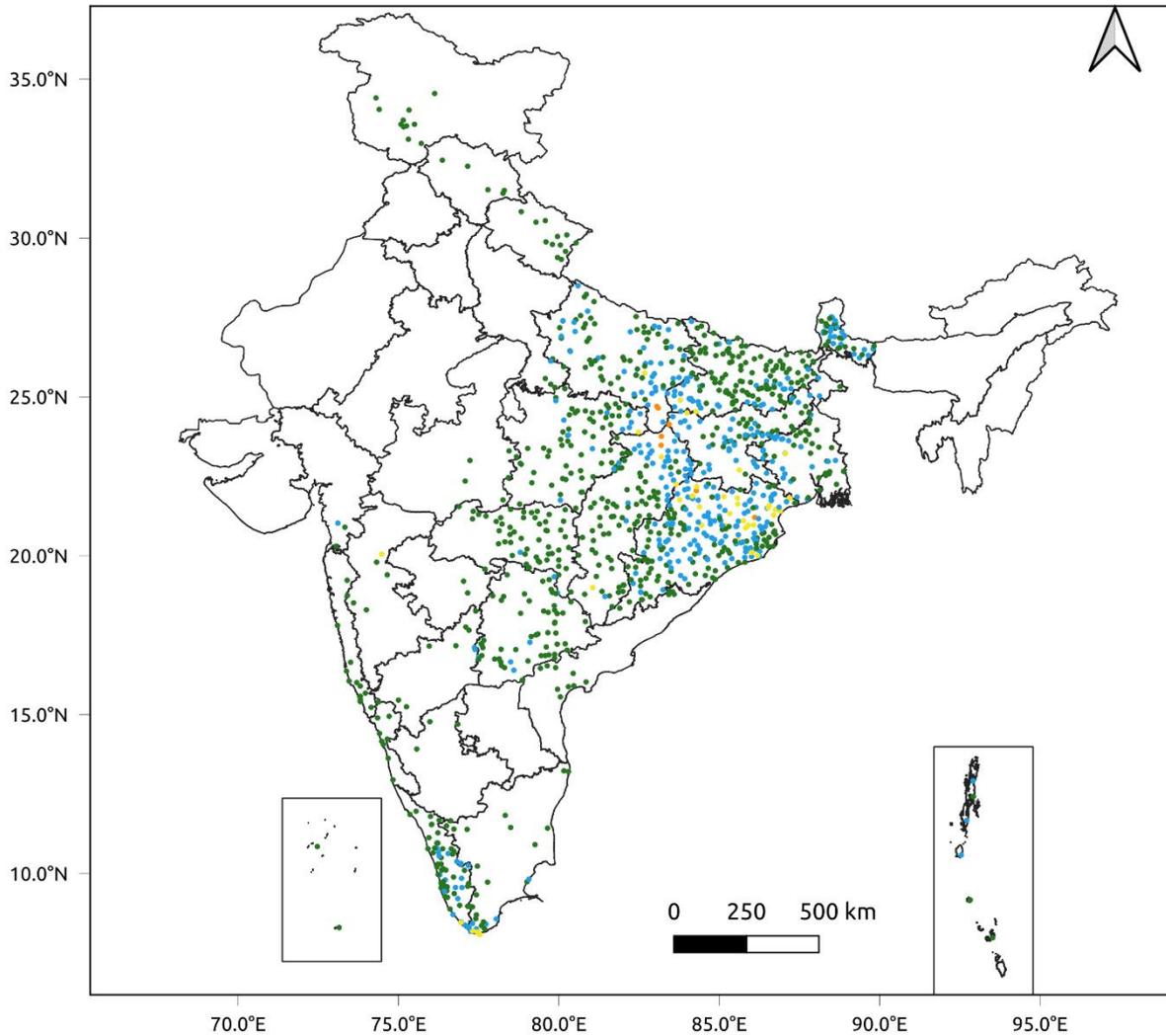


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

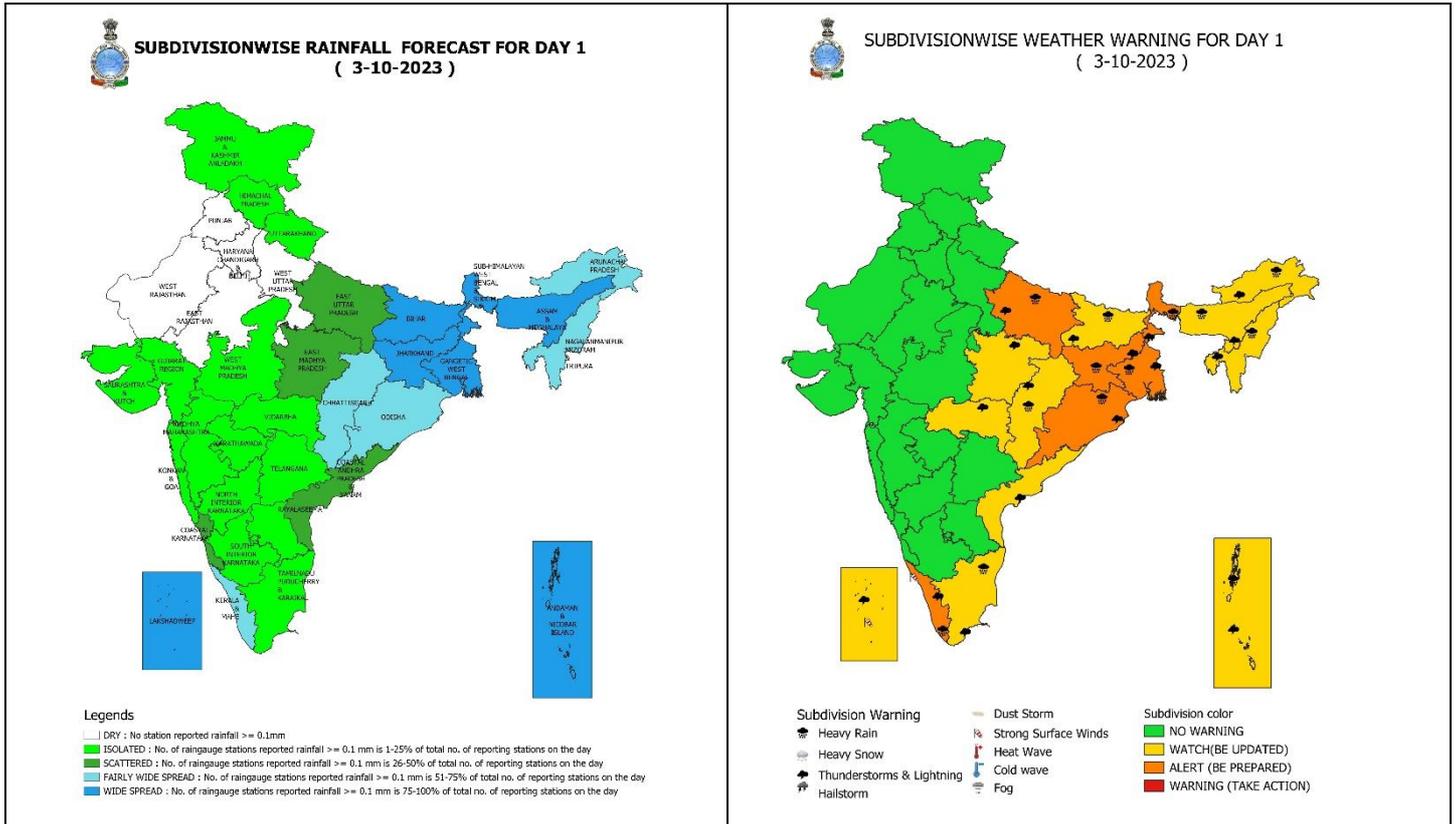


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 2-10-2023 to 0830 IST of 3-10-2023



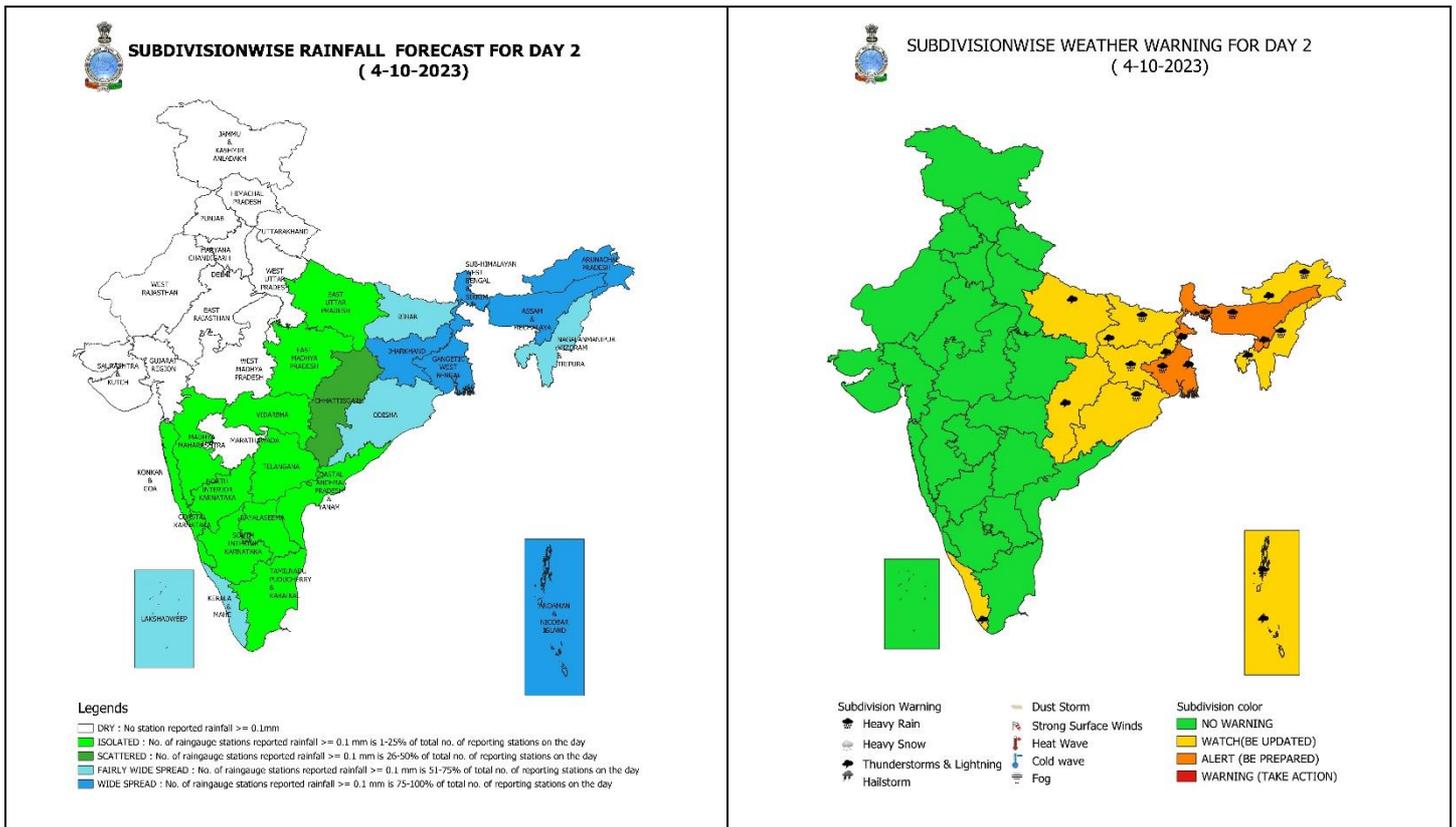
Legends

- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)



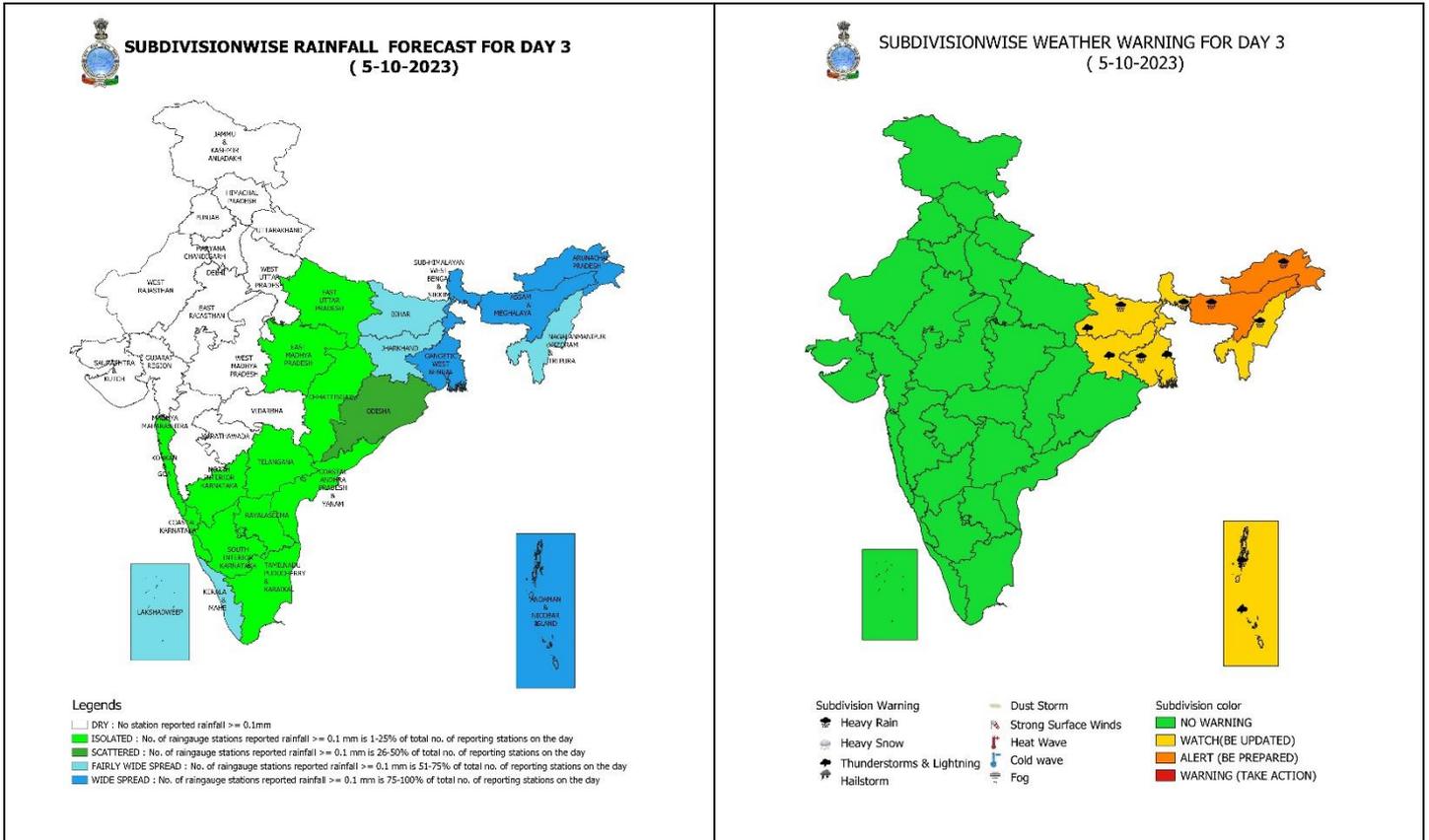
03 October (Day 1): -

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over East Uttar Pradesh, West Bengal & Sikkim, Jharkhand, Odisha, Assam & Meghalaya, Kerala & Mahe; **Heavy rainfall** at isolated places over Chhattisgarh, Andaman & Nicobar Islands, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu.
- ❖ **Thunderstorm with lightning & gusty winds** very likely at isolated places over Kerala & Mahe, Lakshadweep; **with lightning** at isolated places over East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Vidarbha, Odisha, Andaman & Nicobar Islands, West Bengal & Sikkim, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Squally wind (speed of 45-55 kmph gusting to 65 kmph)** very likely over Westcentral & adjoining Northwest Bay of Bengal, Gulf of Mannar; **Squally weather speed of 40-45 kmph gusting to 55 kmph** over Lakshadweep, Comorin area and south Kerala coast. **Fishermen are advised not to venture into these areas.**



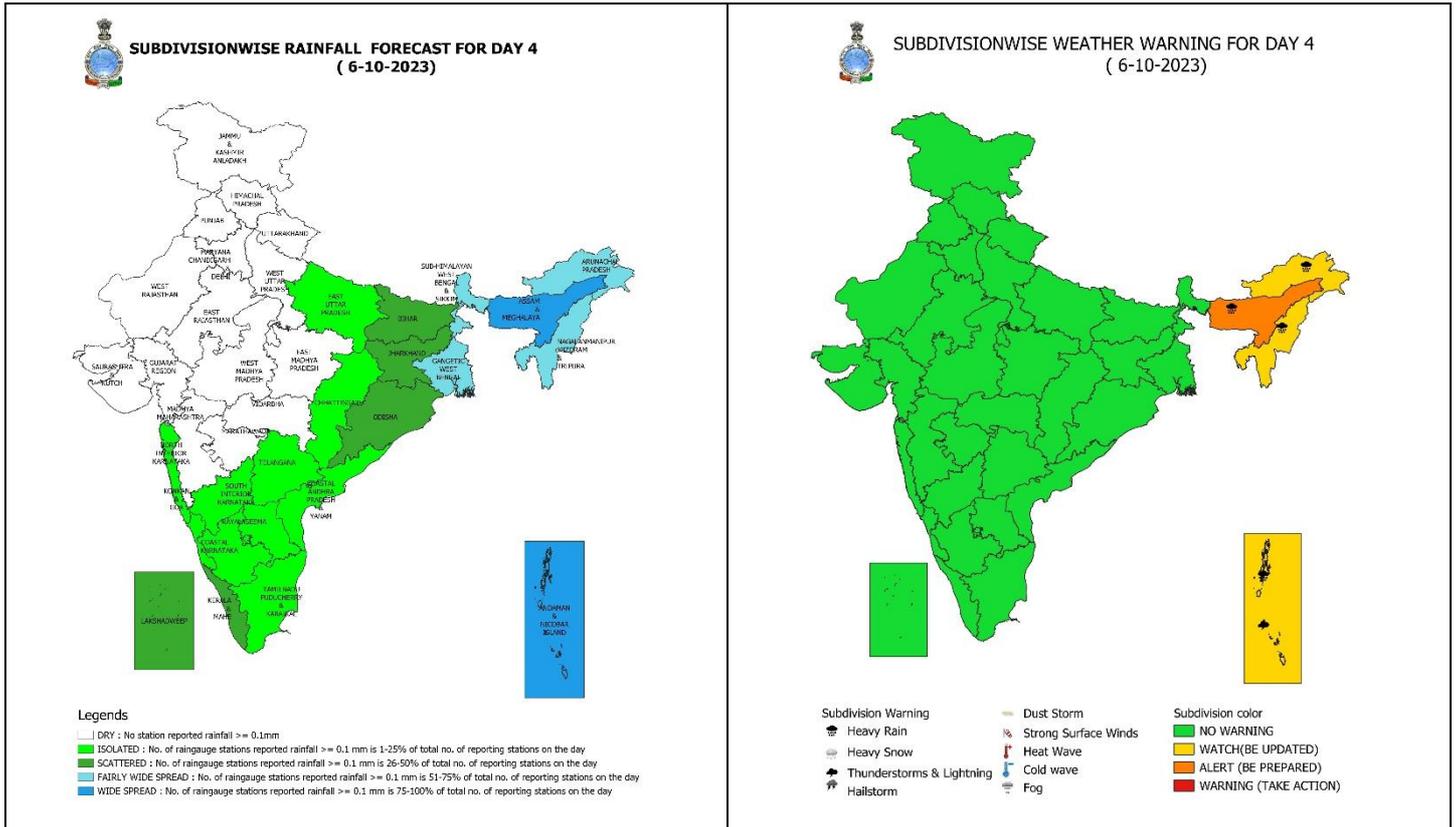
04 October (Day 2): -

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya; **Heavy rainfall** at isolated places over Andaman & Nicobar Islands, Bihar, Jharkhand, Odisha, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Kerala & Mahe; **with lightning** at isolated places over East Uttar Pradesh, Chhattisgarh, Andaman & Nicobar Islands, West Bengal & Sikkim, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Squally wind (speed of 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar; **Squally weather speed of 40-45 kmph gusting to 55 kmph** over Lakshadweep, Comorin area and south Kerala coast. **Fishermen are advised not to venture into these areas.**



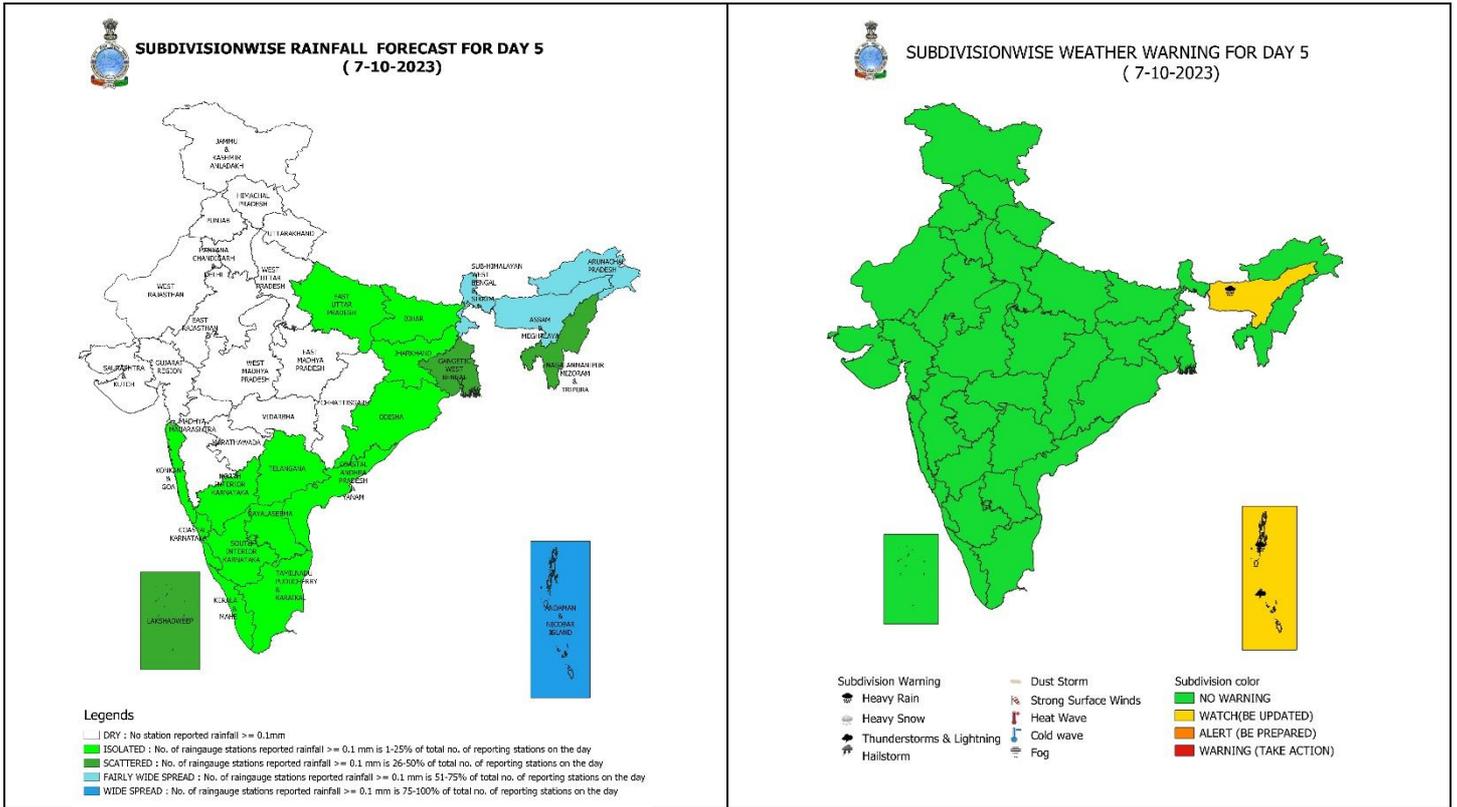
05 October (Day 3): -

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya; **Heavy rainfall** at isolated places over Andaman & Nicobar Islands, Bihar, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **with lightning** likely at isolated places over Bihar, Jharkhand and Gangetic West Bengal.



06 October (Day 4): -

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya; **Heavy rainfall** at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Andaman & Nicobar Islands.



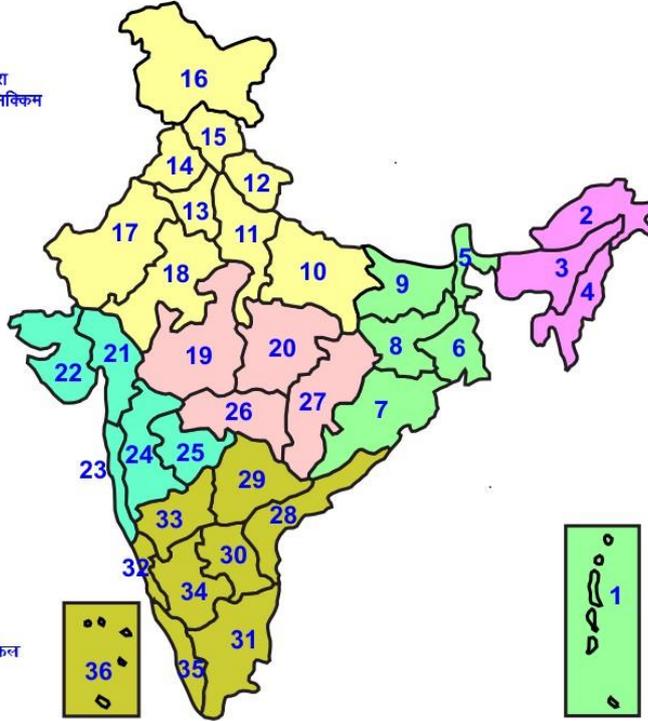
07 October (Day 5): -

- ❖ Heavy rainfall likely at isolated places over Andaman & Nicobar Islands and Assam & Meghalaya.
- ❖ Thunderstorm with lightning & gusty winds (speed 30-40 kmph) likely at isolated places over Andaman & Nicobar Islands.



LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं 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. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & 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. Marathawada
26. Vidharbha
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)

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

* Red color warning does not mean "Red Alert" Red color 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)

LEGENDS

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



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 62-87 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 Storm: Wind speed > 220 kmph (> 119 knots)

* Red color warning does not mean "Red Alert" Red color 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)