



Monday, September 04, 2023
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Significant Weather features:

- ❖ A cyclonic circulation lies over Northeast Bay of Bengal & neighbourhood and extends upto middle tropospheric level. Under its influence, **A Low Pressure Area** is likely to form over northwest & adjoining westcentral Bay of Bengal during next 24 hours.
- ❖ The western ends of Monsoon Trough at mean sea level continues to run along the foothills of the Himalayas. However, the eastern end of the monsoon trough passes through Gorakhpur, Patna, Hazaribagh, Bankura, Digha and thence southeastwards to eastcentral Bay of Bengal and it is likely to the south of its normal position during next 4-5 days.

Weather Forecast and Warnings:

East India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** activity very likely over *Gangetic West Bengal on 04th; Odisha during 04th-07th and over Andaman & Nicobar Islands during 04th-05th September.*

Isolated very heavy rainfall also likely over Andaman & Nicobar Islands on 04th and over Odisha during 04th-05th & 07th September.

South India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Telangana during 04th-08th; Coastal & South Interior Karnataka during 06th-08th, North Interior Karnataka and Rayalaseema on 04th September.

Isolated very heavy rainfall also likely over Coastal Andhra Pradesh on 04th & 05th and over Telangana during 04th-05th September.

Central India: Light/moderate fairly widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over West Madhya Pradesh on 06th & 07th; East Madhya Pradesh *during 05th-08th, Vidarbha during 05th-08th; and over Chhattisgarh during 04th-08th September.*

Isolated very heavy rainfall also likely over Chhattisgarh on 05th September.

West India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Konkan & Goa during 04th-08th; Madhya Maharashtra & Marathwada during 05th-08th September.

Northeast India: Light/moderate scattered to fairly widespread rainfall/thunderstorm with **isolated heavy rainfall** activity very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 06th-07th September.

Subdued rainfall activity likely over Northwest India during next 5 days.

For more details kindly refer:

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

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over Chhattisgarh, Odisha, Telangana and Kerala & Mahe; **at a few places** over Uttarakhand, Maharashtra, Bihar, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep, Andaman & Nicobar Islands and **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Madhya Pradesh, Gujarat Region, West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Andhra Pradesh, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **(in cm): Andaman & Nicobar Islands:** Port Blair-2; **Telangana:** Karimnagar-6, Vemulawada & Jagtiyal-4 each, Kunaram-3, Siddipet-2, Husnabad & Nangnoor-1 each; **Odisha:** Kolabira, Bari & Chandikhole-3 each, Cuttack & Tigiria-2 each, Keiri, Sohela, Benakuda & Anandpur-1 each; **Tamil Nadu, Puducherry & Karaikal:** VIT-Chennai & Aruppukottai-3 each, Kattapakkam-2, Tirur, Puzhal & Virudhunagar-1 each; **Andhra Pradesh:** Dharmavaram-4, Darsi-3; **North Interior Karnataka:** Gulbarga-4; **Bihar:** Sheikhpura-1; **Uttarakhand:** Chamoli-2, Agastyamuni, Karnaprayag & Liti-1 each; **Jharkhand:** Khunti & Ramgarh-3 each, Gumla & Lohardaga-2 each, Godda & Hazaribagh-1 each; **West Bengal & Sikkim:** Jhalda-3, Nimpith & Tadong-2 each, Ranipool-1; **Assam & Meghalaya:** Raha-6, Shillong-2, Tura & Guwahati-1 each; **Nagaland, Manipur, Mizoram & Tripura:** Sakshi, Lengpui & Ashapara-2 each, Aizawl, Theiva & Saiha-1 each; **Chhattisgarh:** Narayanpur-5, Bijapur-4, Raipur, Sakti & Janjgir-2 each, Bilaspur, Mahasamund, Rajnandagaon & Dantewada-1 each; **Maharashtra:** Sakoli-6, Nagpur-4, Bhandara, Awalegaon, Sindewahi & Osmanabad-3 each, Nanded, Baramati & Savarde-2 each; **Kerala & Mahe:** Ponmudi-9, Koothattukulam-5, Parippally-4, Venkurinji, Punalur & Thattathumala-3 each, Palemad, Choondi, Cheruthoni, Ayyappankovil, Anchal-2 each; **Lakshadweep:** Minicoy-4.
- ❖ **Heavy rainfall** at isolated places over Kerala & Mahe.
- ❖ **Minimum Temperature Departures (as on 03-09-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand and East Madhya Pradesh; at many places over Himachal Pradesh, Sub-Himalaya West Bengal & Sikkim, Uttar Pradesh, Arunachal Pradesh, Marathwada and Vidarbha; at a few places over Punjab, Chhattisgarh and Assam & Meghalaya and at isolated places over Haryana-Chandigarh-Delhi, Bihar, Gangetic West Bengal, Jharkhand, Rajasthan, Gujarat Region, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. They were **below normal (-1.6°C to -3.0°C)** at isolated places over Odisha, Telangana and Coastal Andhra Pradesh & Yanam and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 21.6°C** was reported at **Dhar (West Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 03-09-2023):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Himachal Pradesh, Uttarakhand, Sub-Himalaya West Bengal & Sikkim; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, Bihar, Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at most places over Punjab, Rajasthan, Madhya Pradesh, Uttar Pradesh, Jharkhand, Odisha, Gangetic West Bengal, Arunachal Pradesh; at many places over Chhattisgarh, Gujarat state, Telangana, Nagaland, Manipur, Mizoram & Tripura; at a few places Kerala & Mahe, Karnataka and at isolated places over Coastal Andhra Pradesh & Yanam and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 38.0°C** was reported at **Khajuraho (East Madhya Pradesh)**.

* 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

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Meteorological Analysis (Based on 0530 hours IST)

- ❖ The western end of **Monsoon Trough** lies along the foothills of the Himalayas. However, its eastern end now passes through Gorakhpur, Patna, Hazaribagh, Bankura, Digha and thence southeastwards to eastcentral Bay of Bengal at mean sea level.
- ❖ The cyclonic circulation over Northeast Bay of Bengal & neighbourhood extending upto 5.8 km above mean sea level persists. Under its influence, a **low pressure area** is likely to form over northwest & adjoining westcentral Bay of Bengal during next 24 hours.
- ❖ The trough from the cyclonic circulation over northeast Bay of Bengal to north Coastal Andhra Pradesh between 1.5 & 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over northwest Uttar Pradesh & neighbourhood between 1.5 & 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over Interior Odisha between 4.5 & 7.6 km above mean sea level persists.
- ❖ The cyclonic circulation over Andhra Pradesh and adjoining Telangana between 4.5 & 5.8 km above mean sea level persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 09th September, 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 light/moderate rainfall likely along the foothills of the Himalayas, parts of east & northeast India, along the west coasts and islands.
- ❖ Subdued rainfall activity with isolated to scattered rainfall likely over rest parts of the country.



Table-1

7 Days Rainfall Forecast

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

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

Fig. 1: Maximum Temperatures Dated 03.09.2023

Fig. 2: Departure of Maximum Temp. Dated 03.09.2023

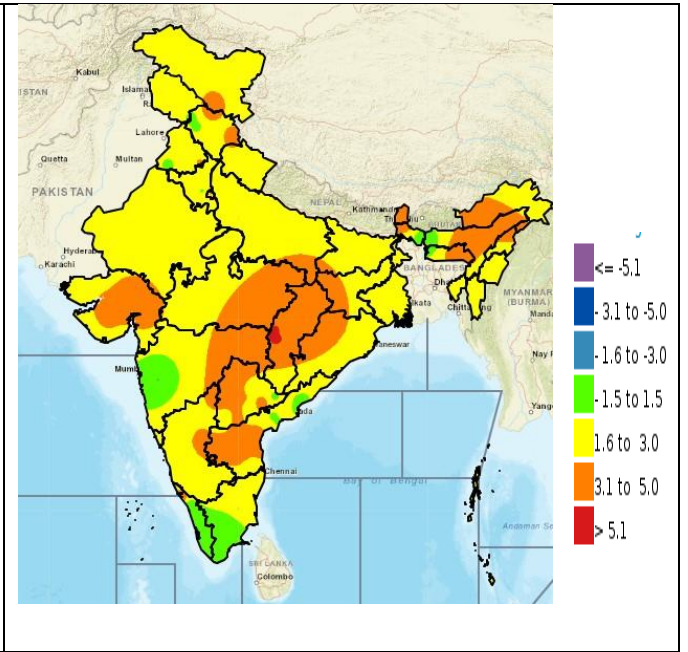
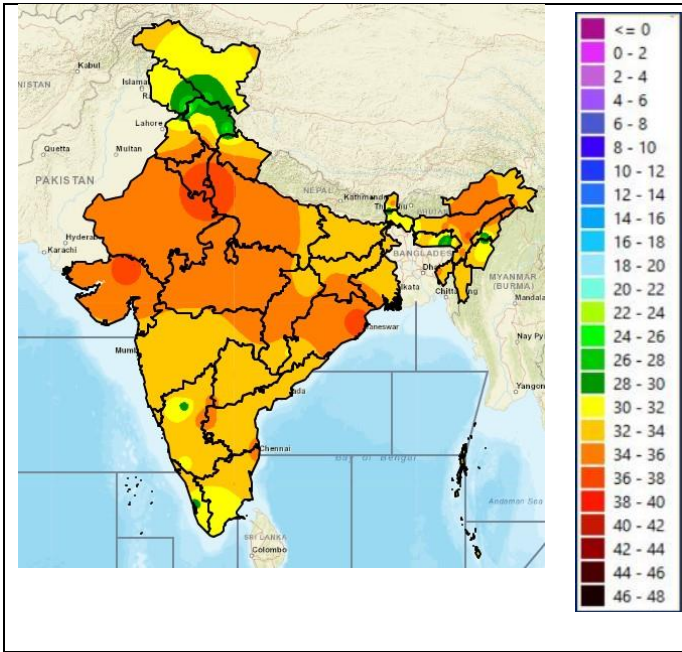


Fig. 3: Minimum Temperatures Dated 03.09.2023

Fig. 4: Departure of Minimum Temp. Dated 03.09.2023

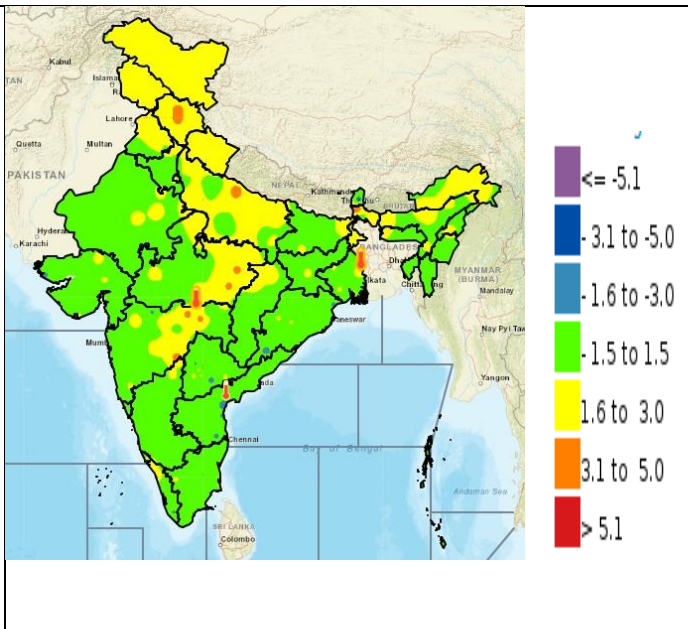
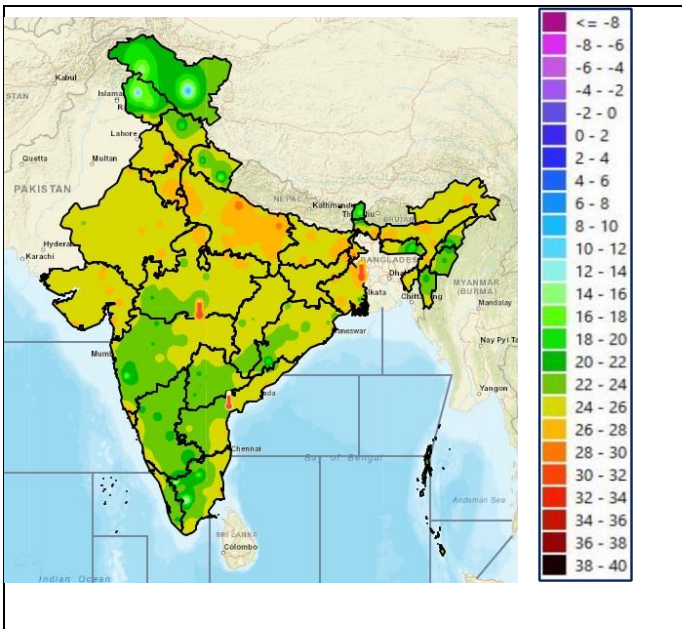
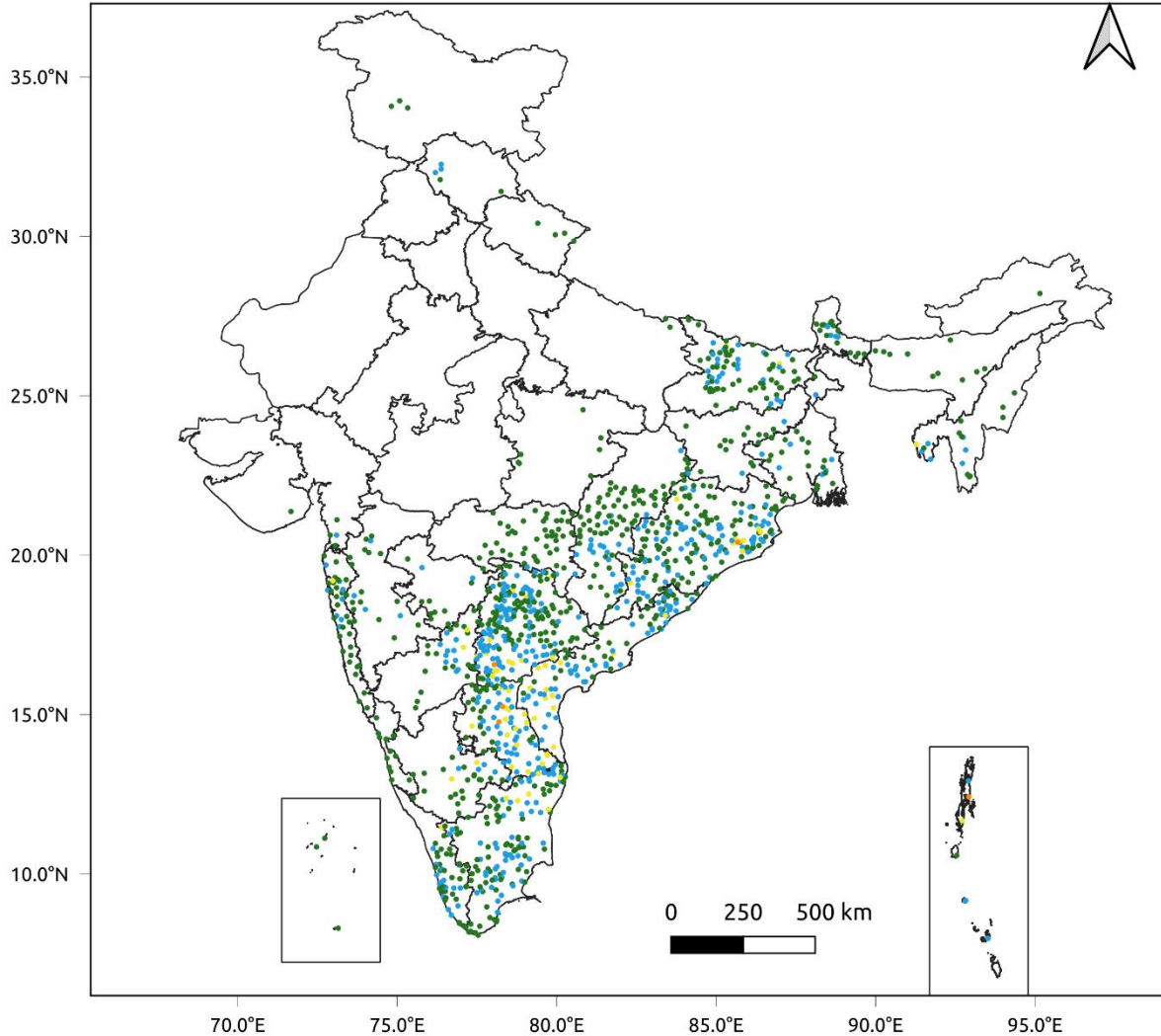


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

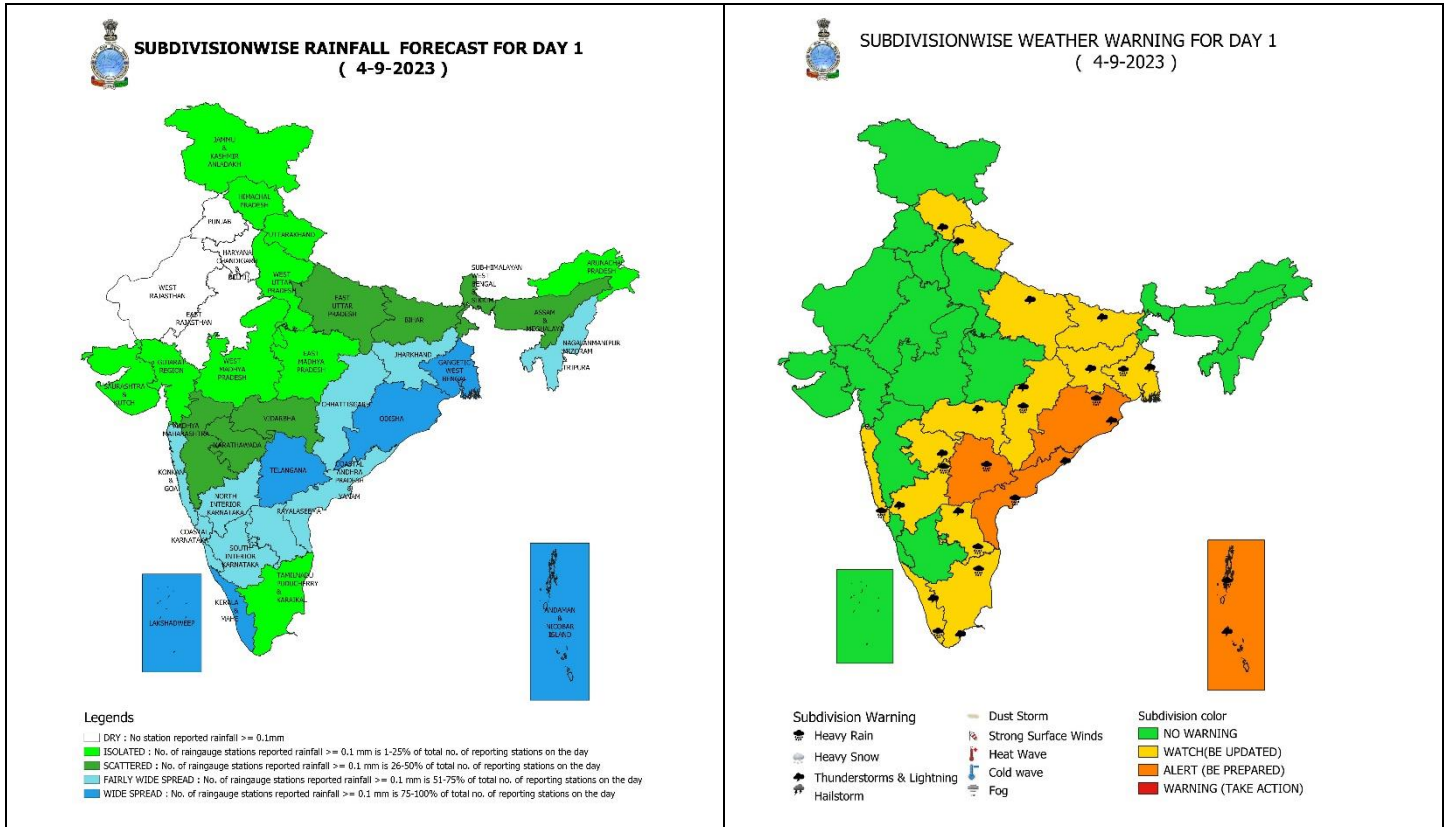


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 2-9-2023 to 0830 IST of 3-9-2023



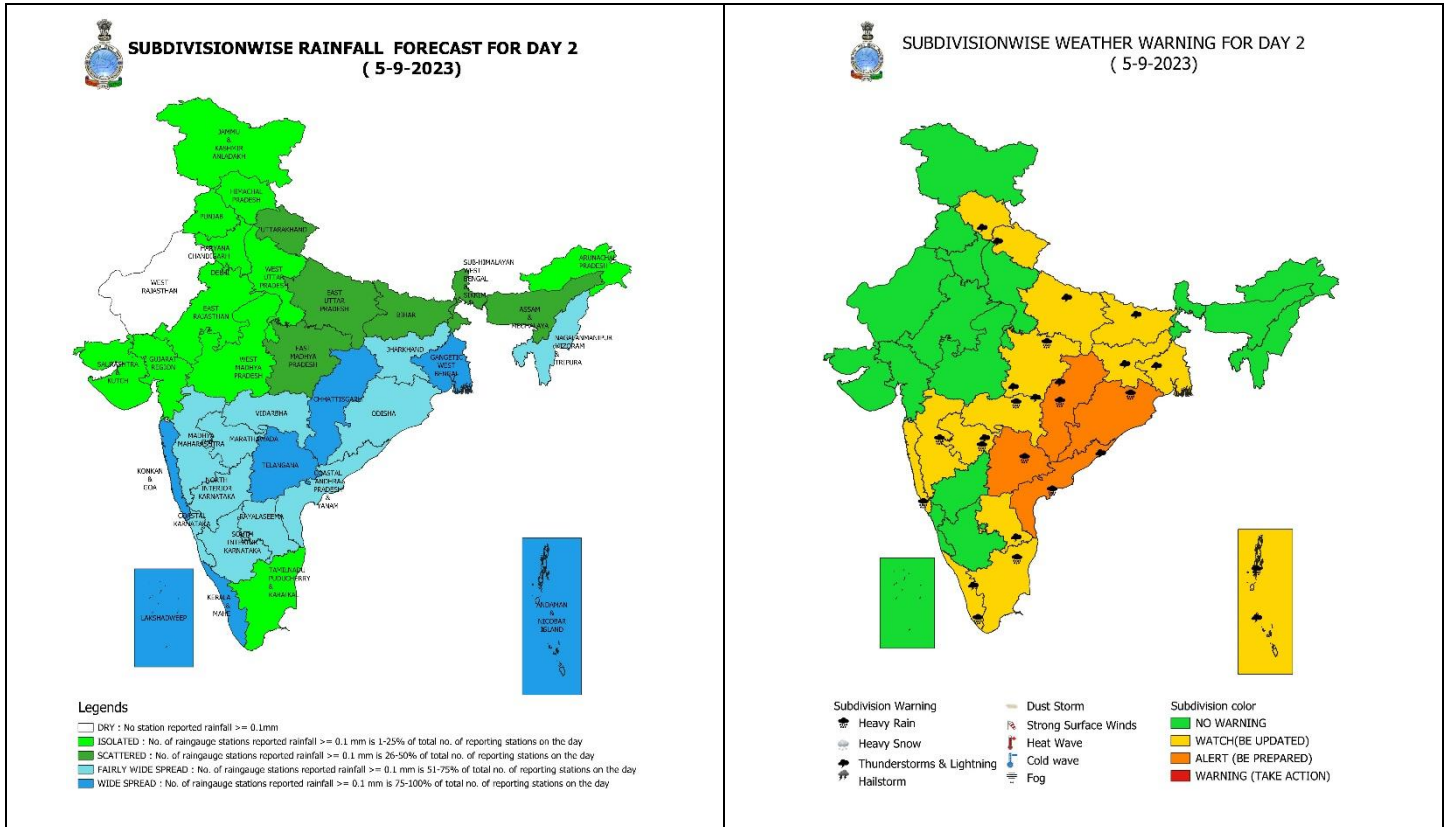
Legends

- 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)



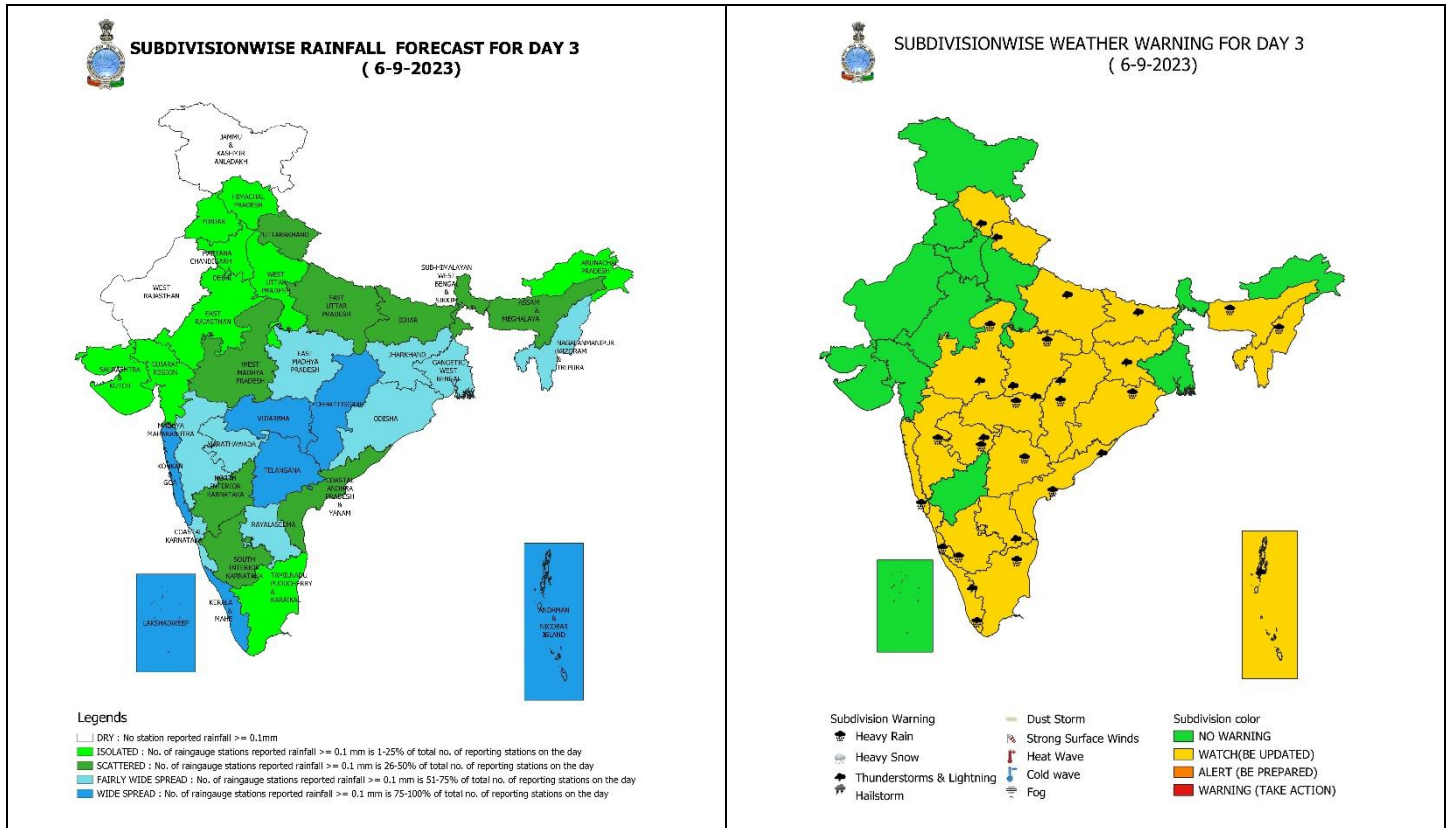
04 September (Day 1): -

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands, Odisha, Coastal Andhra Pradesh & Yanam and Telangana and **heavy rainfall** at isolated places over Chhattisgarh, Gangetic West Bengal, Konkan & Goa, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and North Interior Karnataka.
- ❖ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Gangetic West Bengal, Bihar, Jharkhand, Odisha, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, North Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Westcentral and adjoining Southwest Arabian Sea and Comorin area and south Bay and adjoining southern Parts of central Bay of Bengal and north Andaman Sea. **Fishermen are advised not to venture into these areas.**



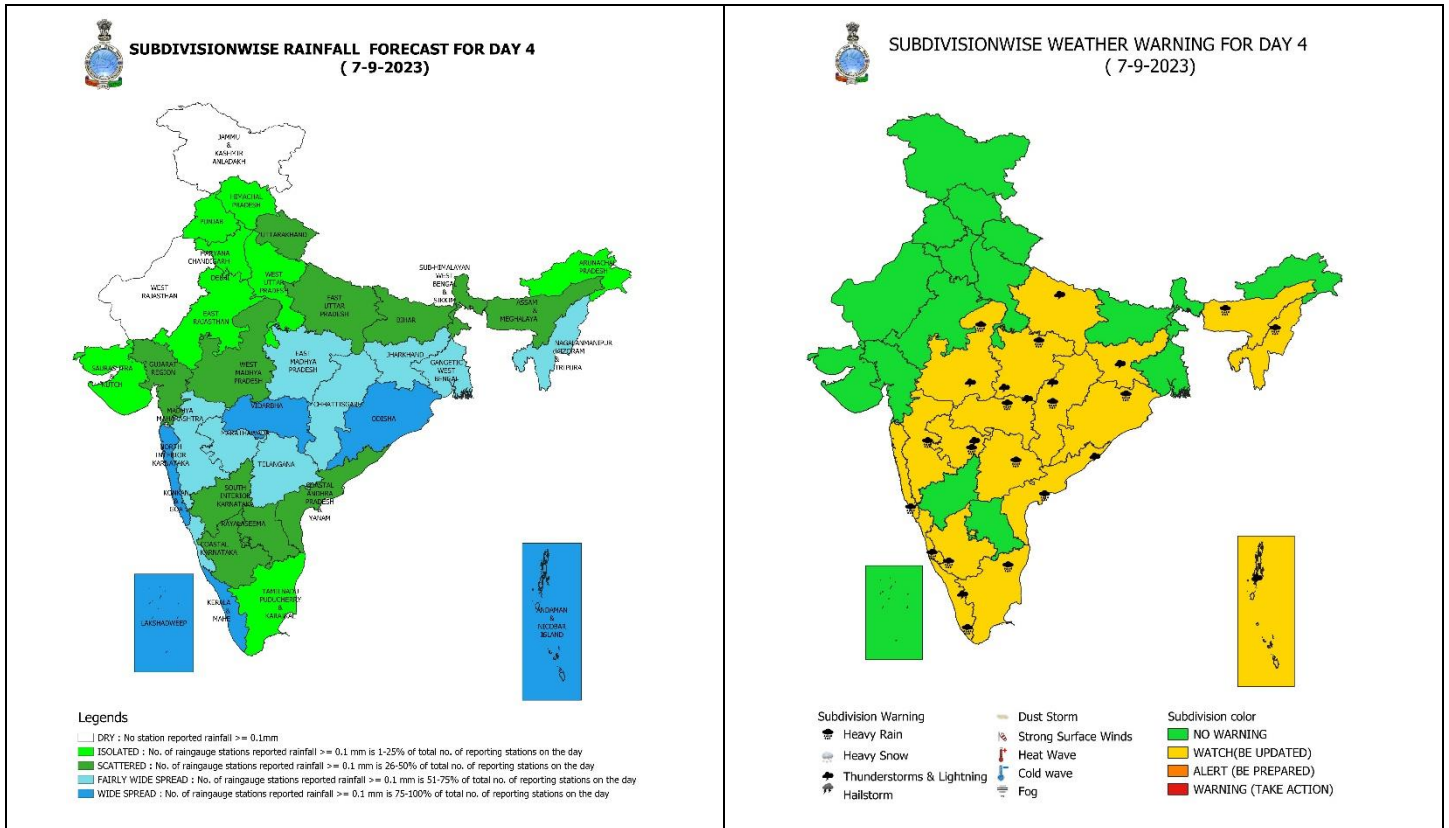
05 September (Day 2): -

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Chhattisgarh, Odisha, Coastal Andhra Pradesh & Yanam and Telangana and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Gangetic West Bengal, Bihar, Jharkhand, Marathwada and Rayalaseema.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Southwest and adjoining Westcentral Arabian Sea and south Bay and Gulf of Mannar; **Squally weather** (wind speed reaching 45-55 kmph gusting to 65 kmph) over Southern parts of central Bay of Bengal & adjoining Andaman Sea and **Squally weather** (wind speed reaching 40-45 kmph gusting to 55 kmph) over Comorin area. **Fishermen are advised not to venture into these areas.**



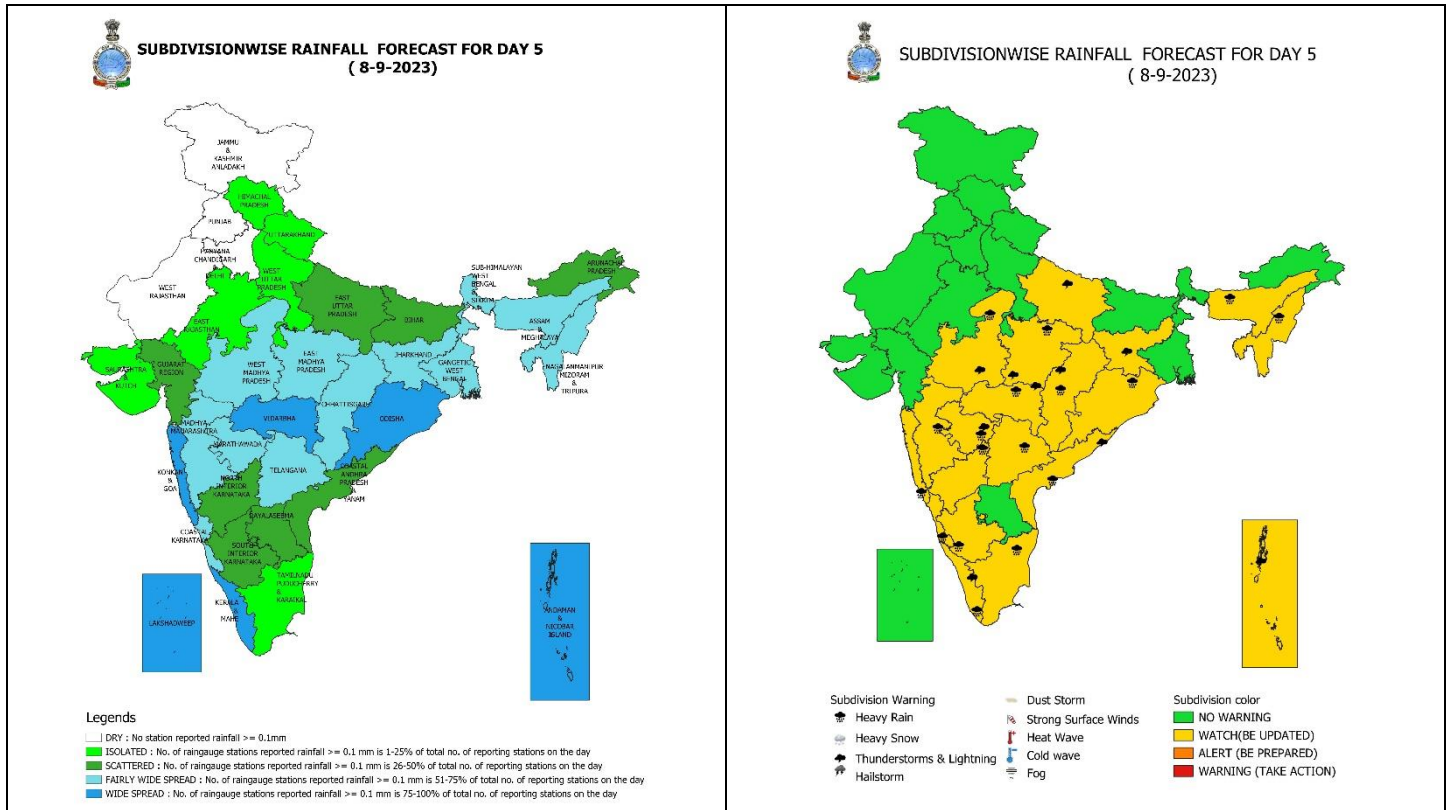
06 September (Day 3): -

- ❖ **Heavy rainfall** very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, Coastal & south Interior Karnataka, Coastal Andhra Pradesh & Yanam. Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Marathwada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Southwest and adjoining Westcentral Arabian Sea and Gulf of Mannar and south Bay of Bengal and adjoining southern parts of central Bay of Bengal; **Squally weather** (wind speed reaching 45-55 kmph gusting to 65 kmph) over westcentral and adjoining northwest Bay of Bengal and along and off south Odisha and north Coastal Andhra Pradesh & Yanam, north Andaman Sea. **Fishermen are advised not to venture into these areas.**



07 September (Day 4): -

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Odisha and **heavy rainfall** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Assam & Meghalaya Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & south Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** likely at isolated places over Andaman Islands and **with lightning** at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Marathwada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Southwest and adjoining Westcentral Arabian Sea and Comorin area and Gulf of Mannar; **Squally weather** (wind speed reaching 45-55 kmph gusting to 65 kmph) over westcentral Bay of Bengal and adjoining northwest of Bay of Bengal along and off south Odisha and north Coastal Andhra Pradesh & Yanam and north Andaman Sea. **Fishermen are advised not to venture into these areas.**



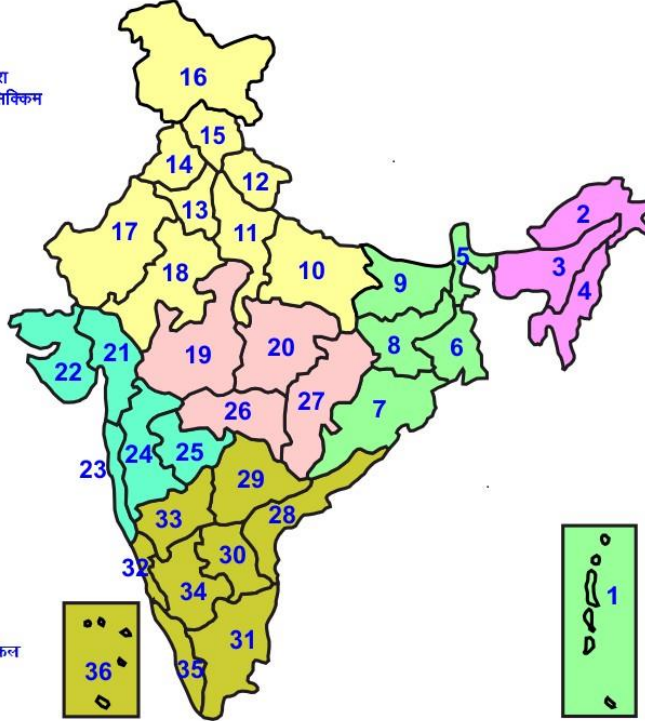
08 September (Day 5): -

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Kerala & Mahe and **heavy rainfall** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha Assam & Meghalaya Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** likely at isolated places over Andaman Islands and **with lightning** at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Marathwada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Southwest and adjoining Westcentral Arabian Sea and Comorin area and Gulf of Mannar; **Squally weather** (wind speed reaching 45-55 kmph gusting to 65 kmph) over westcentral Bay of Bengal and adjoining northwest of Bay of Bengal along and off south Odisha and north Coastal Andhra Pradesh & Yanam and north Andaman Sea. **Fishermen are advised not to venture into these areas.**



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 मराठावाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसेमा
- 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 < 1km

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

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