



Friday, September 08, 2023
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Significant Weather features:

- v A cyclonic circulation lies over central parts of interior Odisha & adjoining Chhattisgarh extending upto middle tropospheric levels tilting southwestwards with height. It is likely to move west-northwestwards to lie over central parts of Madhya Pradesh during 08th-10th September.
- v An east-west shear zone runs roughly along Lat. 19° N in middle tropospheric levels across north Maharashtra, south Chhattisgarh and south Odisha.
- v The Monsoon Trough is active and lies to the south of its normal position. Its eastern end is likely to shift northwards to its normal position gradually from today and western end is likely to shift northwards to its normal position from 10th September.

Weather Forecast and Warnings:

East India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** activity very likely over Bihar, Odisha and Jharkhand on 08th and over Andaman & Nicobar Islands during 10th -11th September.

South India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely over Coastal Karnataka during 08th-10th; over South Interior Karnataka on 09th & 10th; over ghat areas of Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 08th - 11th September.

Central India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Madhya Pradesh during 08th-09th; Vidarbha on 08th September.

Isolated very heavy rainfall very likely over East Madhya Pradesh on 08th September.

West India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Marathwada on 08th; over Konkan & Goa during 08th & 11th; over Madhya Maharashtra and Gujarat Region on 08th & 09th September.

Isolated very heavy rainfall very likely over Konkan & Goa, Madhya Maharashtra and Gujarat Region on 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 08th-11th and Arunachal Pradesh on 10th September.

Northwest India: Light/moderate isolated to scattered rainfall/thunderstorm with **isolated heavy rainfall** activity very likely over Uttar Pradesh and East Rajasthan on 08th September.

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 most places over** Kerala & Mahe; **at many places** over Konkan & Goa, Madhya Maharashtra, Chhattisgarh, Madhya Pradesh, East Uttar Pradesh, Gujarat Region and Delhi; **at a few places** over South Interior Karnataka, Odisha, Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and **at isolated places over** Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, North Interior Karnataka, Marathwada, Vidarbha, Gangetic West Bengal, Bihar, West Uttar Pradesh, Saurashtra & Kutch, Haryana, Himachal Pradesh, Uttarakhand, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalaya West Bengal & Sikkim and East Rajasthan.

❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **(in cm)**: Mira road-9, Matunga-8, Bari-6; Multar, Kolaba, Mokochung, Kozhikode, Mannarkkad, Dang and Kalamassery-5; Bhandara, Jafarpur, Lucknow, Dharanajigarh-4; Kalwan, Narela, Narmada, Khandwa-3.

❖ **Heavy rainfall** at isolated places over Konkan & Goa.

❖ **Minimum Temperature Departures (as on 07-09-2023)**: Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Sub-Himalaya West Bengal & Sikkim; at isolated places over Arunachal Pradesh, West Rajasthan, West Madhya Pradesh, Saurashtra & Kutch and South Interior Karnataka; **above normal (1.6°C to 3.0°C)** at a few places over Assam & Meghalaya and Uttarakhand and at isolated places over Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Chhattisgarh, Madhya Maharashtra, Konkan & Goa, Gujarat Region, Punjab, Haryana-Chandigarh-Delhi, East Madhya Pradesh, East Uttar Pradesh, Odisha, North Interior Karnataka. They were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **below normal (-1.6°C to -3.0°C)** at a few places over Telangana and at isolated Himachal Pradesh, East Rajasthan, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 20.2°C** was reported at **Aurangabad (Madhya Maharashtra)** over the plains of the country.

❖ **Maximum Temperature Departures (as on 06-09-2023)**: Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Himachal Pradesh; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana-Chandigarh-Delhi, Uttarakhand, West Rajasthan, West Madhya Pradesh and Assam & Meghalaya and at isolated places over Arunachal Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Saurashtra & Kutch; at a few places over East Rajasthan, Gujarat Region, East Uttar Pradesh and Sub-Himalaya West Bengal & Sikkim. They were **below normal (-1.6°C to -3.0°C)** at many places over Marathwada and Telangana; at a few places over Vidarbha and at isolated places over Coastal Andhra Pradesh & Yanam, Chhattisgarh, Gangetic West Bengal, Madhya Pradesh and Madhya Maharashtra and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 41.7°C** was reported at **Jaisalmer (West Rajasthan)**.



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Monsoon Trough** at mean sea level now passes through Jaisalmer, Kota, Sagar, Raipur, Gopalpur and thence east-southeastwards to Westcentral Bay of Bengal and extends upto 2.1 km above mean sea level tilting southwards with height.
- ❖ The cyclonic circulation over central parts of interior Odisha & adjoining Chhattisgarh extending upto 7.6 km above mean sea level tilting southwestwards with height persists.
- ❖ The east-west shear zone roughly along Lat. 19° N between 3.1 & 7.6 km above mean sea level persists.
- ❖ The **Western Disturbance** as a trough in westerlies with its axis at 5.8 km above mean sea level roughly along Long. 76° E to the north of Lat. 32° N persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 13th 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 to fairly widespread light/moderate rainfall likely over parts of east, northeast & central India, Uttarakhand, Uttar Pradesh, Karnataka, Telangana, 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	08-Sep	09-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep
		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	SCT	SCT	FWS	FWS	SCT	SCT	SCT
3	ASSAM & MEGHALAYA	SCT	FWS	FWS	FWS	FWS	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	FWS	FWS	FWS	FWS	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	FWS	FWS	FWS	SCT	FWS	FWS
6	GANGETIC WEST BENGAL	FWS	SCT	SCT	SCT	SCT	FWS	FWS
7	ODISHA	FWS	SCT	SCT	SCT	FWS	WS	WS
8	JHARKHAND	FWS	SCT	SCT	SCT	SCT	SCT	SCT
9	BIHAR	FWS	FWS	SCT	SCT	SCT	SCT	SCT
10	EAST UTTAR PRADESH	FWS	FWS	SCT	SCT	SCT	SCT	SCT
11	WEST UTTAR PRADESH	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
12	UTTARAKHAND	FWS	FWS	SCT	ISOL	FWS	FWS	FWS
13	HARYANA CHANDIGARH & DELHI	DRY	ISOL	ISOL	DRY	ISOL	ISOL	ISOL
14	PUNJAB	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
17	WEST RAJASTHAN	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	SCT	SCT	SCT	SCT	SCT	SCT	SCT
19	WEST MADHYA PRADESH	WS	FWS	FWS	FWS	SCT	SCT	SCT
20	EAST MADHYA PRADESH	WS	WS	FWS	FWS	FWS	FWS	FWS
21	GUJARAT REGION	FWS	FWS	SCT	ISOL	ISOL	ISOL	ISOL
22	SAURASHTRA & KUTCH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	WS	FWS	FWS	SCT	SCT	SCT	SCT
25	MARATHAWADA	WS	FWS	SCT	SCT	ISOL	ISOL	ISOL
26	VIDARBHA	WS	FWS	FWS	FWS	SCT	SCT	SCT
27	CHHATTISGARH	WS	FWS	SCT	SCT	FWS	FWS	FWS
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	SCT	SCT	SCT	SCT	SCT
29	TELANGANA	SCT	SCT	SCT	SCT	SCT	FWS	FWS
30	RAYALASEEMA	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	WS	WS	FWS	FWS	FWS
33	NORTH INTERIOR KARNATAKA	SCT	FWS	FWS	SCT	SCT	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	SCT	FWS	FWS	SCT	SCT	SCT	SCT
35	KERALA & MAHE	WS	WS	WS	WS	FWS	FWS	FWS
36	LAKSHADWEEP	WS	WS	WS	WS	FWS	FWS	FWS

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 07.09.2023

Fig. 2: Departure of Maximum Temp. Dated 07.09.2023

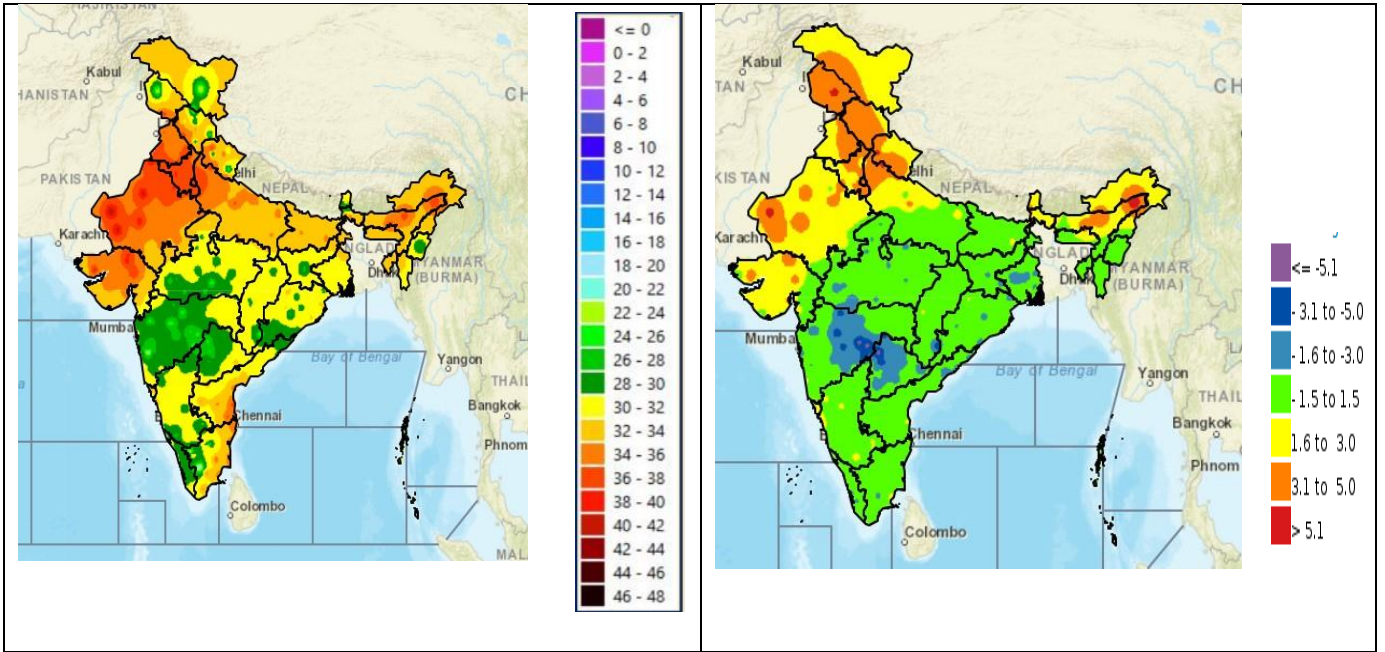
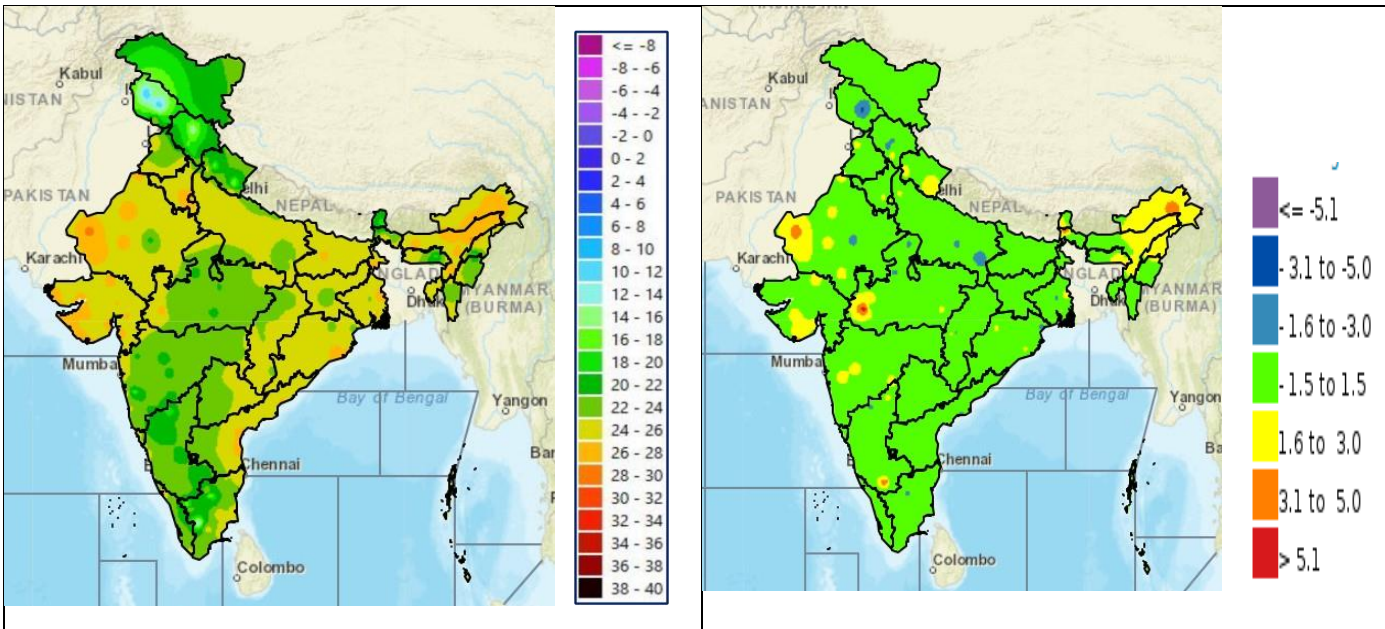


Fig. 3: Minimum Temperatures Dated 07.09.2023

Fig. 4: Departure of Minimum Temp. Dated 07.09.2023

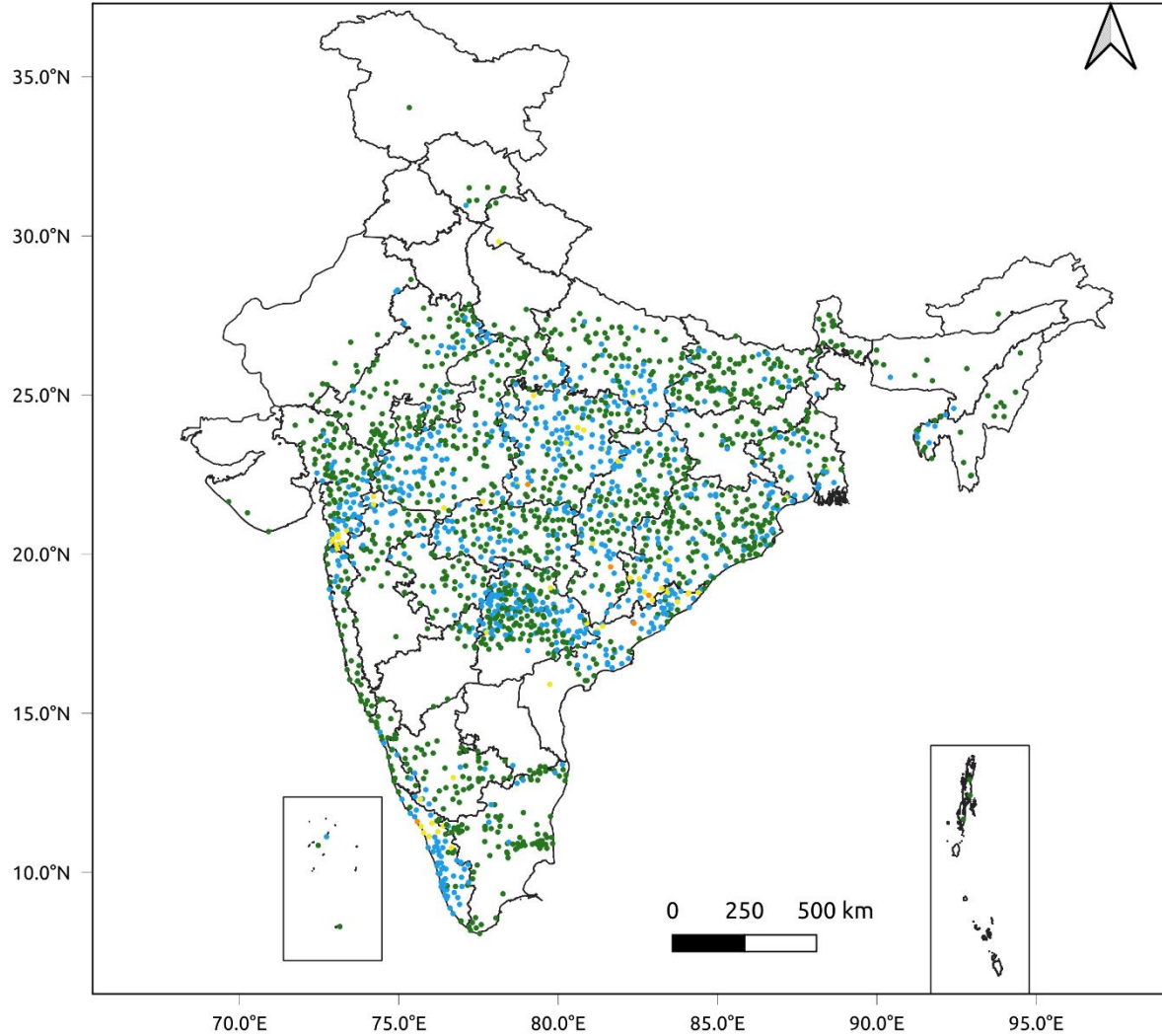


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Fig. 5: Accumulated Rainfall (mm) during past 24 hours

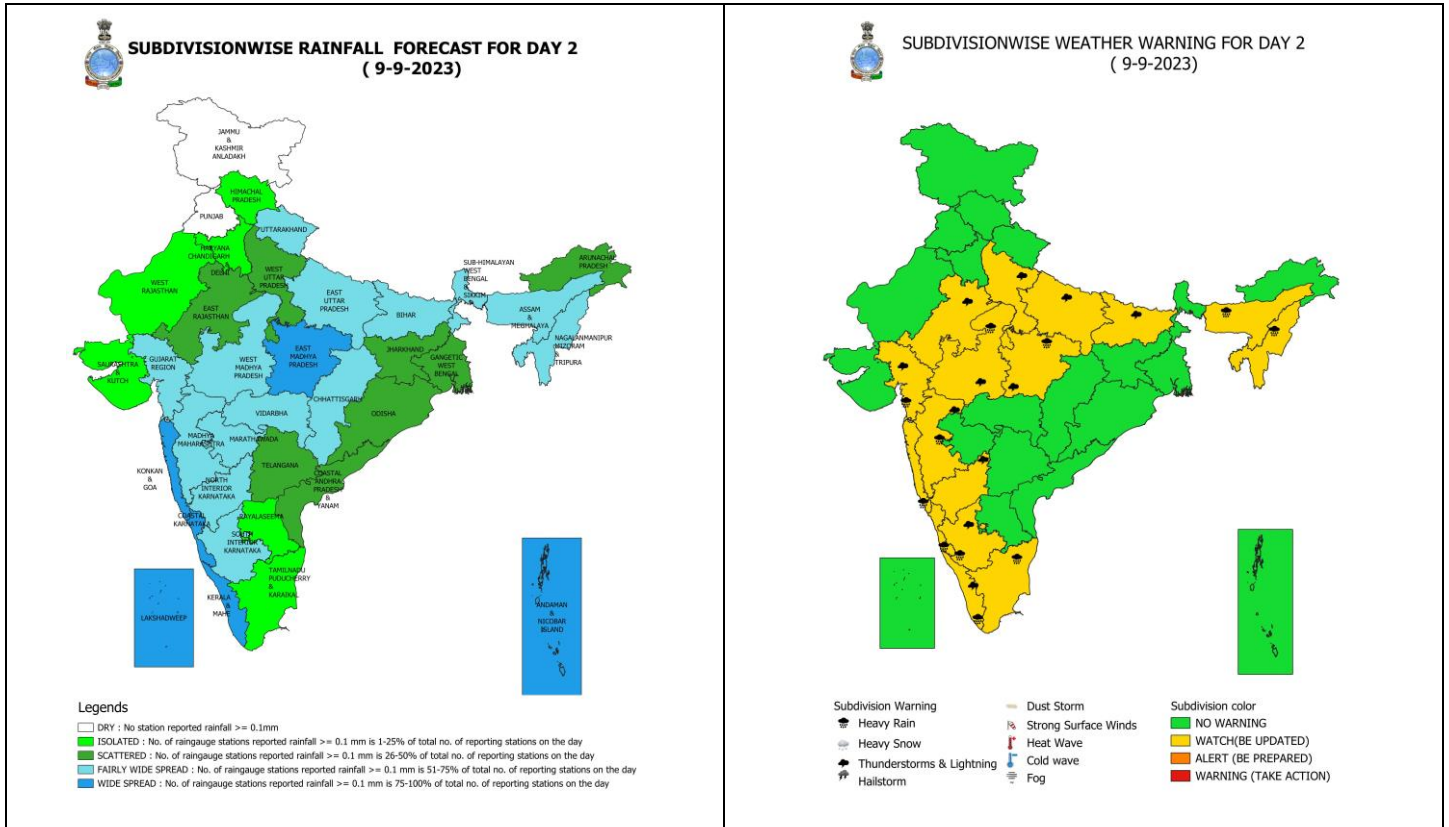


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 6-9-2023 to 0830 IST of 7-9-2023



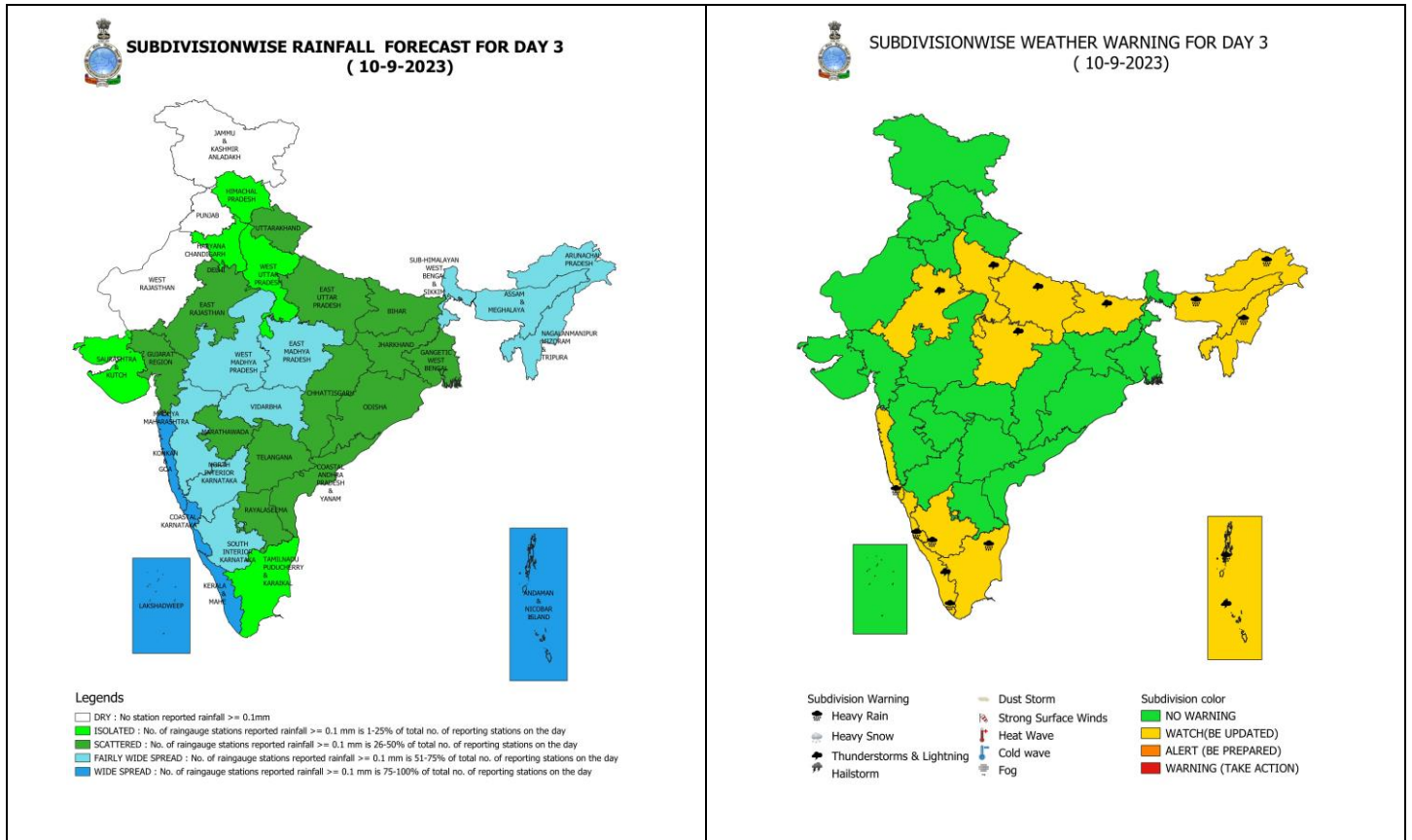
Legends

- 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)



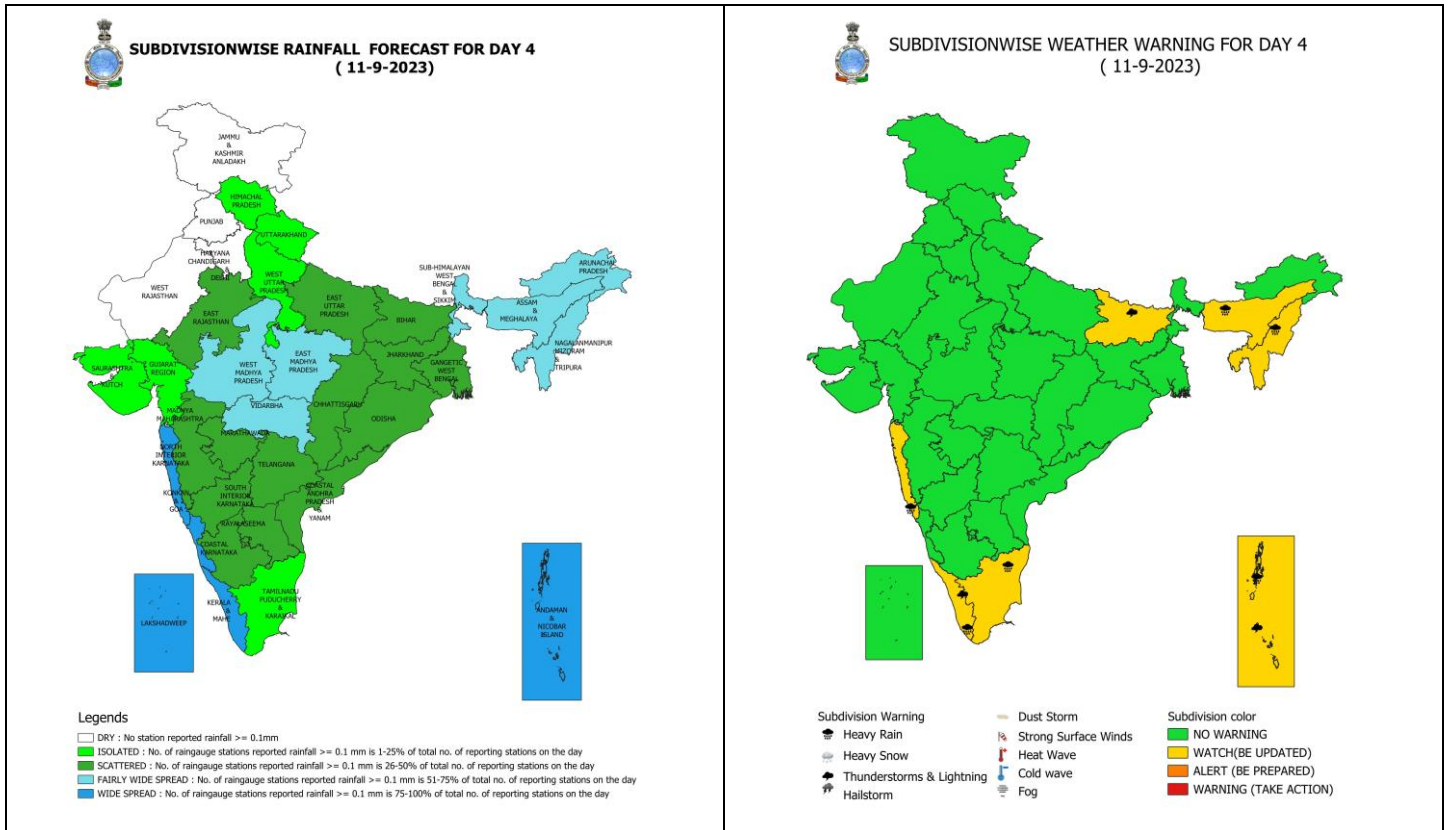
09 September (Day 2): -

- ❖ **Heavy rainfall** likely at isolated places over Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Coastal & South Interior Karnataka, ghat area of Tamil Nadu and Kerala & Mahe.
- ❖ **Thunderstorm with lightning** very likely at isolated places over Uttar Pradesh, East Rajasthan, Madhya Pradesh, Bihar, Madhya Maharashtra, Gujarat Region, North & South Interior Karnataka and Kerala & Mahe.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Southwest and adjoining Westcentral Arabian Sea, westcentral Bay of Bengal; **Squally weather** (wind speed reaching 40-45 kmph gusting to 55 kmph) over Eastcentral & Southwest Bay of Bengal along & off Tamil Nadu coast and Gulf of Mannar. **Fishermen are advised not to venture into these areas.**



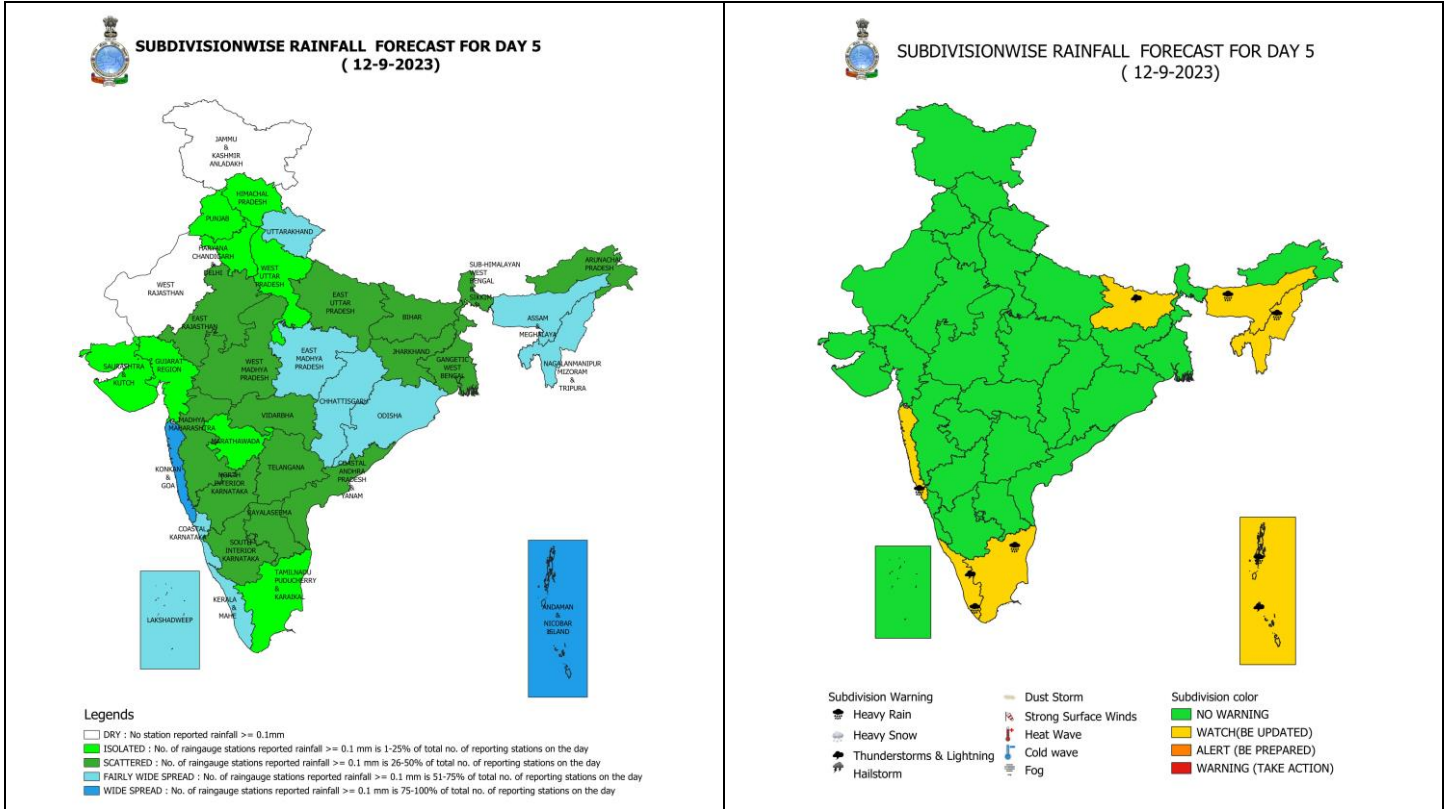
10 September (Day 3): -

- ❖ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal & South Interior Karnataka, ghat area of Tamil Nadu and Kerala & Mahe.
- ❖ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Andaman & Nicobar Islands; **with lightning** very likely at isolated places over Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Bihar and Kerala & Mahe.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Southwest and adjoining Westcentral Arabian Sea, Southwest Bay of Bengal and along & off Gulf of Mannar. **Fishermen are advised not to venture into these areas.**



11 September (Day 4): -

- ❖ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, ghat area of Tamil Nadu and Kerala & Mahe.
- ❖ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Andaman & Nicobar Islands; **with lightning** very likely at isolated places over Bihar and Kerala & Mahe.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Southwest and adjoining Westcentral Arabian Sea, Westcentral Bay of Bengal and along & off Gulf of Mannar. **Fishermen are advised not to venture into these areas.**



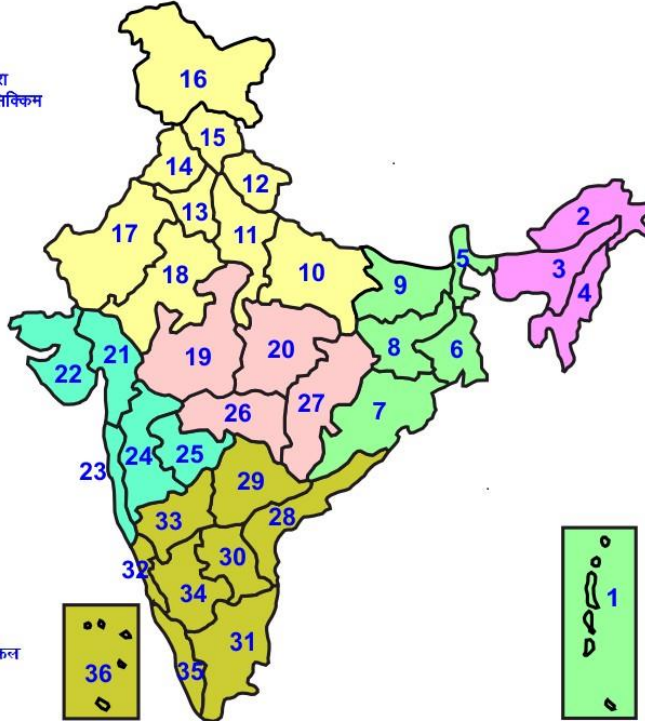
12 September (Day 5): -

- ❖ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, ghat area of Tamil Nadu and Kerala & Mahe.
- ❖ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Andaman & Nicobar Islands; **with lightning** very likely at isolated places over Bihar and Kerala & Mahe.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Southwest and adjoining Westcentral Arabian Sea, Westcentral Bay of Bengal and along & off Gulf of Mannar. **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 माले
- 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. Marathwada
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

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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)

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