



Wednesday, October 25, 2023
Time of Issue: 0845 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Significant Weather features:

- ❖ The **Depression** [Remnant of the Cyclonic Storm "Tej" (pronounced as Tej)] over Yemen moved west-northwestward, weakened into a Well Marked Low Pressure Area over the same region at 2030 hours IST of 24th October. It further moved west-northwestwards and weakened into a **Low Pressure Area** at 0530 hours IST of 25th October over the same region and the associated cyclonic circulation extends upto mid tropospheric levels.
- ❖ The **Severe Cyclonic Storm "Hphoon"** (pronounced as Hphoon) over Northeast Bay of Bengal moved northeastwards, weakened into a Cyclonic Storm and crossed Bangladesh coast to the south of Chittagong near latitude 21.9°N and longitude 91.9°E between 0130 hours IST & 0230 hours IST of 25th October as a Cyclonic Storm with wind speed of 75-85 kmph gusting to 95 kmph. It lay centered at 0530 hours IST of 25th October over coastal Bangladesh near latitude 22.2°N and longitude 92.2°E, about 40 km east-southeast of Chittagong (Bangladesh). It is very likely to move northeastwards and weaken into a deep depression during next 06 hours and further into a depression during subsequent 06 hours.

Weather forecast & warnings:

Weather warnings in association with Cyclonic Storm "Hphoon" (pronounced as Hphoon) over coastal Bangladesh:

(i) Rainfall Warning:

- ❖ **Manipur, Mizoram & Tripura and south Assam & Meghalaya:** Light to moderate rainfall is very likely at most places with isolated heavy rainfall over Mizoram on 25th. Light to moderate rainfall is likely at many places over Mizoram and Tripura on 26th October.
- ❖ Light to moderate rainfall is very likely at many places over Nagaland, Manipur and east Arunachal Pradesh till 26th October.

(ii) Fishermen Warning: Fishermen are advised not to venture into;

- ❖ **Northeast Bay of Bengal and along & off Bangladesh & north Myanmar coasts** till 25th October.
- ❖ **Adjoining areas of northwest Bay of Bengal and Eastcentral Bay of Bengal** till 25th October noon.

No significant weather likely over rest parts of the country.



Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over Andaman & Nicobar Islands and Nagaland, Manipur, Mizoram & Tripura and **at isolated places** over Assam & Meghalaya, Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Kerala & Mahe:** Thrissur-4; Kozhikode, Pathanamthitta, Thiruvananthapuram & Palakkad-3 each, Idukki-2; **Tamil Nadu:** Valprai-2; **Andaman & Nicobar Islands:** Maya Bandar & Long Island- 2 each.
- ❖ **Minimum Temperature Departures (as on 24-10-2023):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over West Madhya Pradesh, Odisha; **above normal (1.6°C to 3.0°C)** at most places over Gujarat state; at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Konkan & Goa; at isolated places over Madhya Maharashtra, West Rajasthan, Punjab, Bihar, Jharkhand, Gangetic West Bengal. They were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Telangana, Sub-Himalayan West Bengal & Sikkim; **below normal (-1.6°C to -3.0°C)** at isolated places over Andhra Pradesh, South Interior Karnataka, East Madhya Pradesh, Vidarbha, Chhattisgarh and near normal over rest parts of the country. Yesterday, **the lowest minimum temperature of 13.0°C** was reported at **Sikar (West Rajasthan)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 24-10-2023):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Rayalaseema and Coastal Karnataka; **above normal (1.6°C to 3.0°C)** at most places over Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; at many places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Madhya Maharashtra and Lakshadweep; at a few places over Odisha and Saurashtra & Kutch; at isolated places over Himachal Pradesh, West Uttar Pradesh, Chhattisgarh, Telangana, Marathwada and Gujarat Region. They were **below normal (-1.6°C to -3.0°C)** at isolated places Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Nagaland, Manipur, Mizoram & Tripura and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 38.5°C** was reported at **Surendranagar (Saurashtra & Kutch)**.



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Depression** [Remnant of the Cyclonic Storm “Tej” (pronounced as Tej)] over Yemen moved west-northwestward, weakened into a Well Marked Low Pressure Area over the same region at 2030 hours IST of 24th October. It further moved west-northwestwards and weakened into a **Low Pressure Area** at 0530 hours IST of 25th October over the same region and the associated cyclonic circulation extends upto mid tropospheric levels.
- ❖ The **Severe Cyclonic Storm “Hamoon”** (pronounced as Hamoon) over Northeast Bay of Bengal moved northeastwards, weakened into a Cyclonic Storm and crossed Bangladesh coast to the south of Chittagong near latitude 21.9°N and longitude 91.9°E between 0130 hours IST & 0230 hours IST of 25th October as a Cyclonic Storm with wind speed of 75-85 kmph gusting to 95 kmph. It lay centered at 0530 hours IST of 25th October over coastal Bangladesh near latitude 22.2°N and longitude 92.2°E, about 40 km east-southeast of Chittagong (Bangladesh). It is very likely to move northeastwards and weaken into a deep depression during next 06 hours and further into a depression during subsequent 06 hours.
- ❖ The feeble **Western Disturbance** as a trough in middle tropospheric levels with its axis at 5.8 km above mean sea level now runs roughly along Long. 77°E & north of Lat. 30°N.
- ❖ The **cyclonic circulation** over Southwest Bay of Bengal off Coastal Andhra Pradesh between 1.5 & 3.1 km above mean sea level persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 30th October, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.

Weather Outlook for subsequent 2 days

- ❖ Scattered to fairly widespread light/moderate rainfall likely over extreme south peninsular India and Andhra Pradesh.
- ❖ Isolated light/moderate rainfall likely over Andaman & Nicobar Islands.
- ❖ Mainly dry weather likely to prevail over rest parts of the country.



Table-1

7 Days Rainfall Forecast								
S. No.	Subdivision	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	FWS	SCT	SCT	SCT	ISOL	ISOL
2	ARUNACHAL PRADESH	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY
3	ASSAM & MEGHALAYA	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	SCT	ISOL	DRY	DRY	DRY	DRY
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	DRY	DRY	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	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJARAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHAWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
32	COASTAL KARNATAKA	DRY	DRY	DRY	ISOL	ISOL	ISOL	DRY
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	ISOL	ISOL	ISOL	DRY
35	KERALA & MAHE	SCT	FWS	FWS	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	SCT	SCT	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 24.10.2023

Fig. 2: Departure of Maximum Temp. Dated 24.10.2023

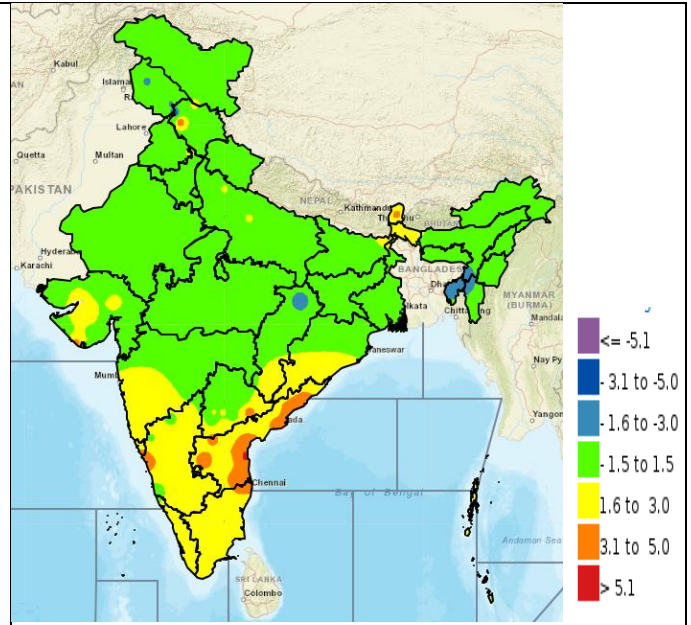
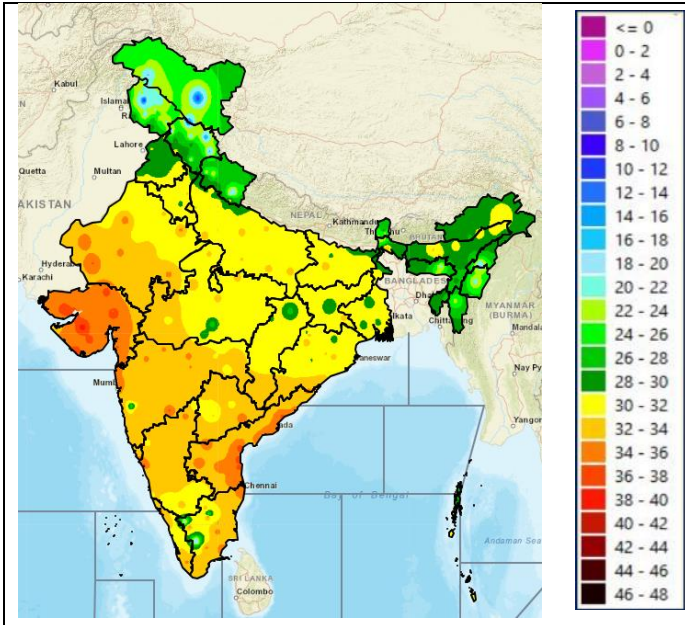
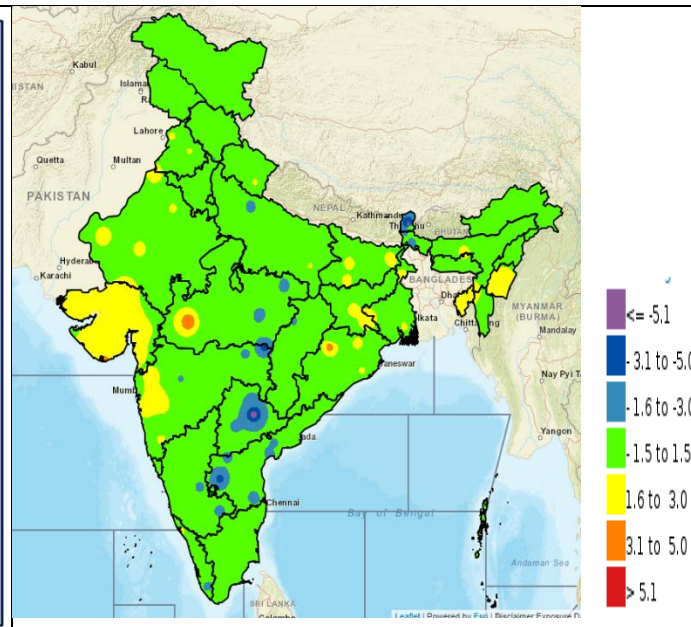
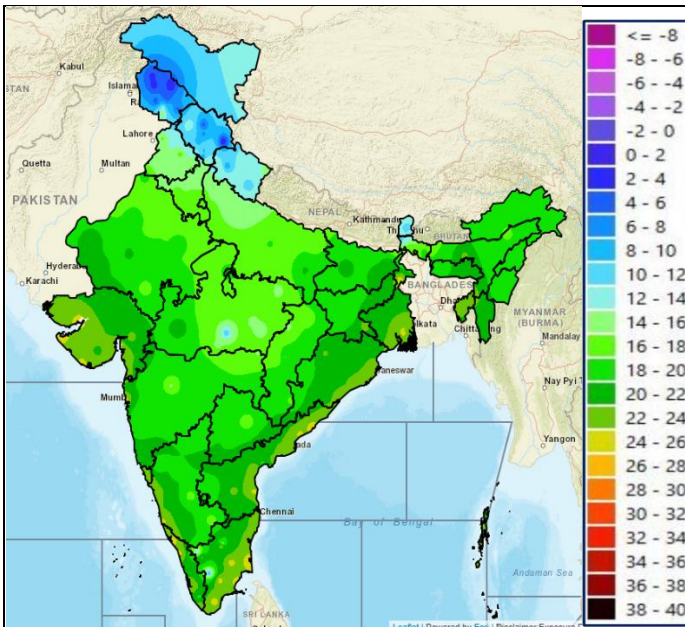


Fig. 3: Minimum Temperatures Dated 24.10.2023

Fig. 4: Departure of Minimum Temp. Dated 24.10.2023

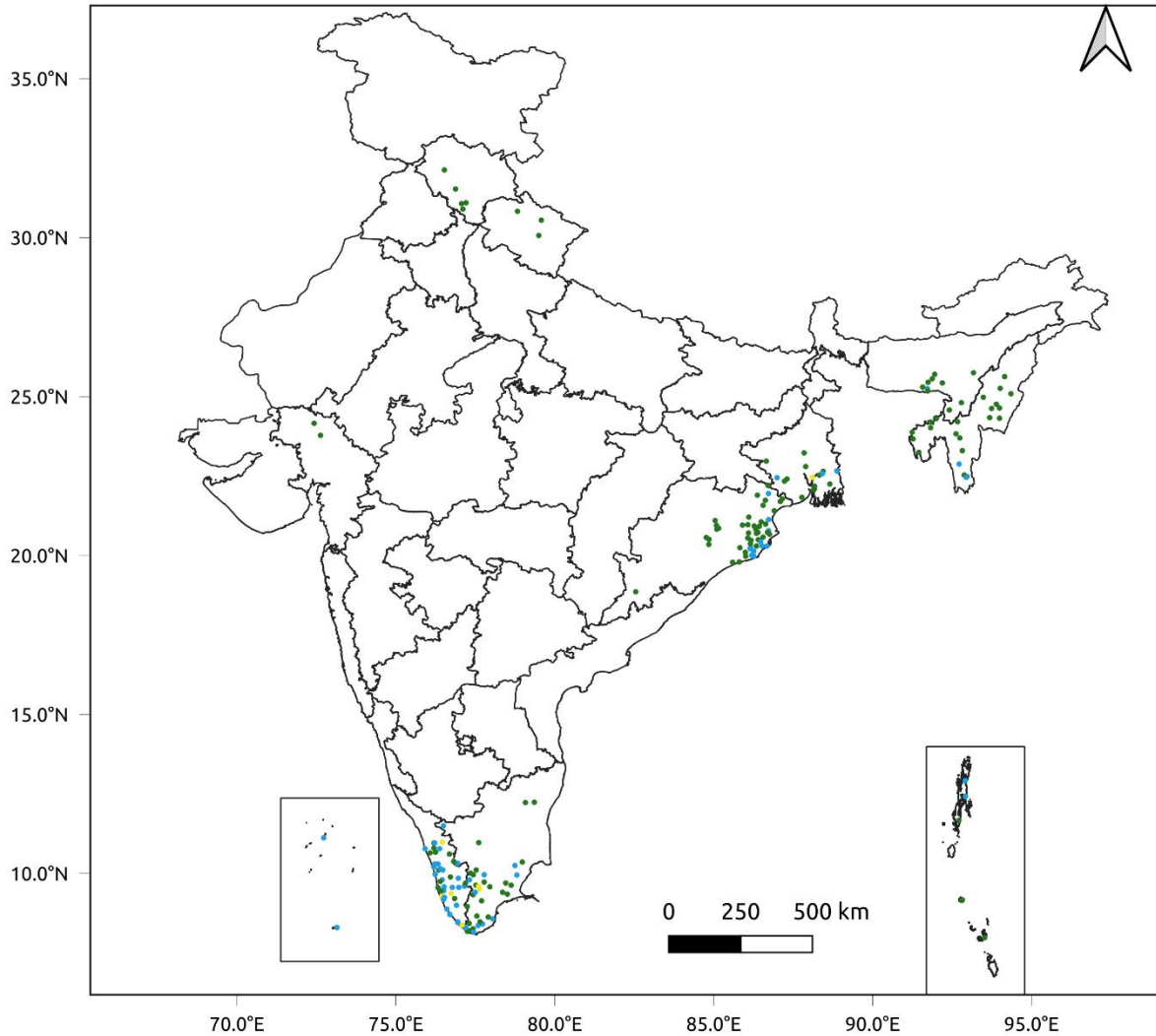


* Red color warning does not mean "Red Alert" Red color warning means "Take Action".
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day For
more details kindly visit <https://mausam.imd.gov.in> or contact : 011-2434-4599
(Service to the Nation since 1875)

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

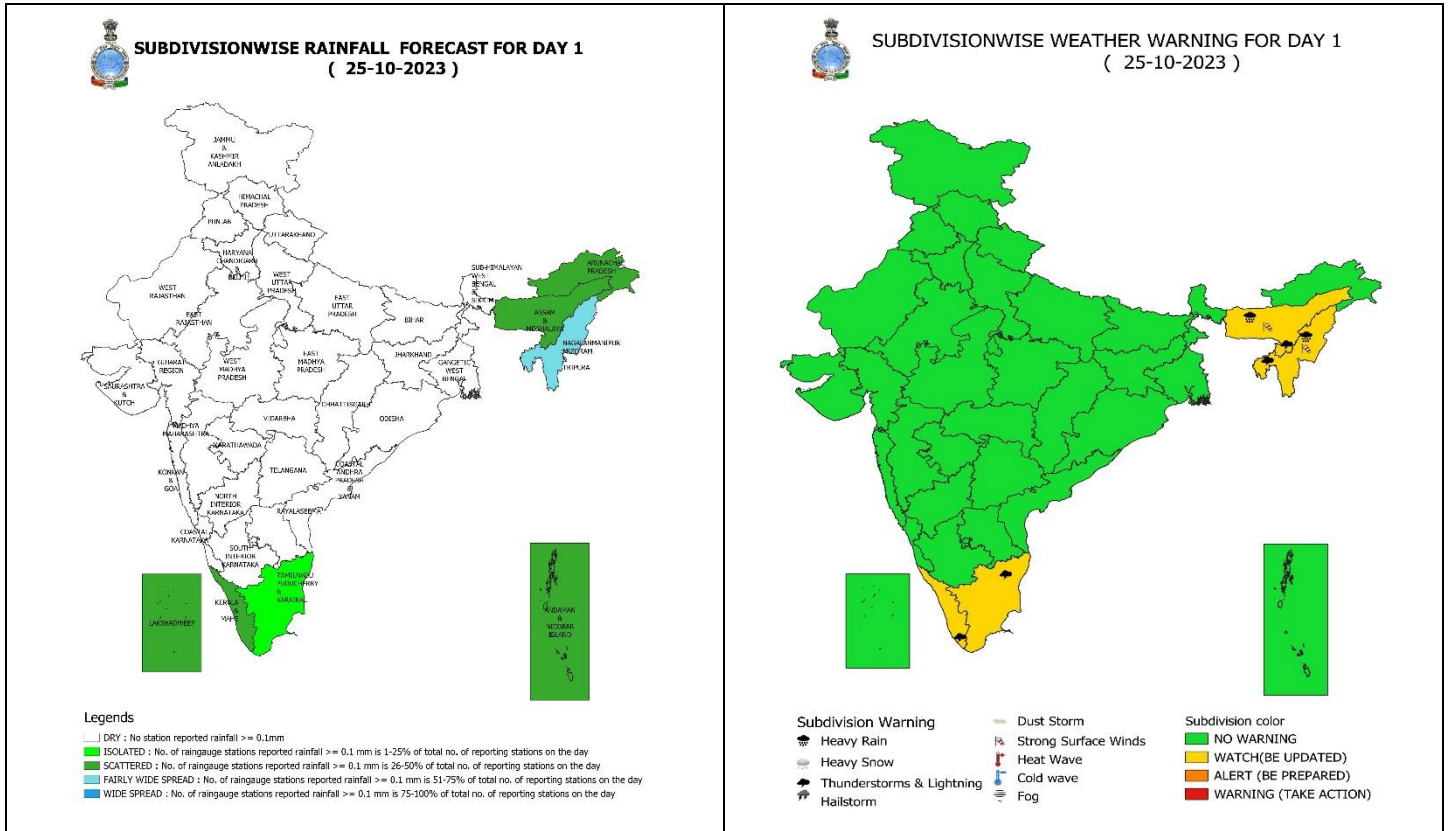


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 23-10-2023 to 0830 IST of 24-10-2023



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)

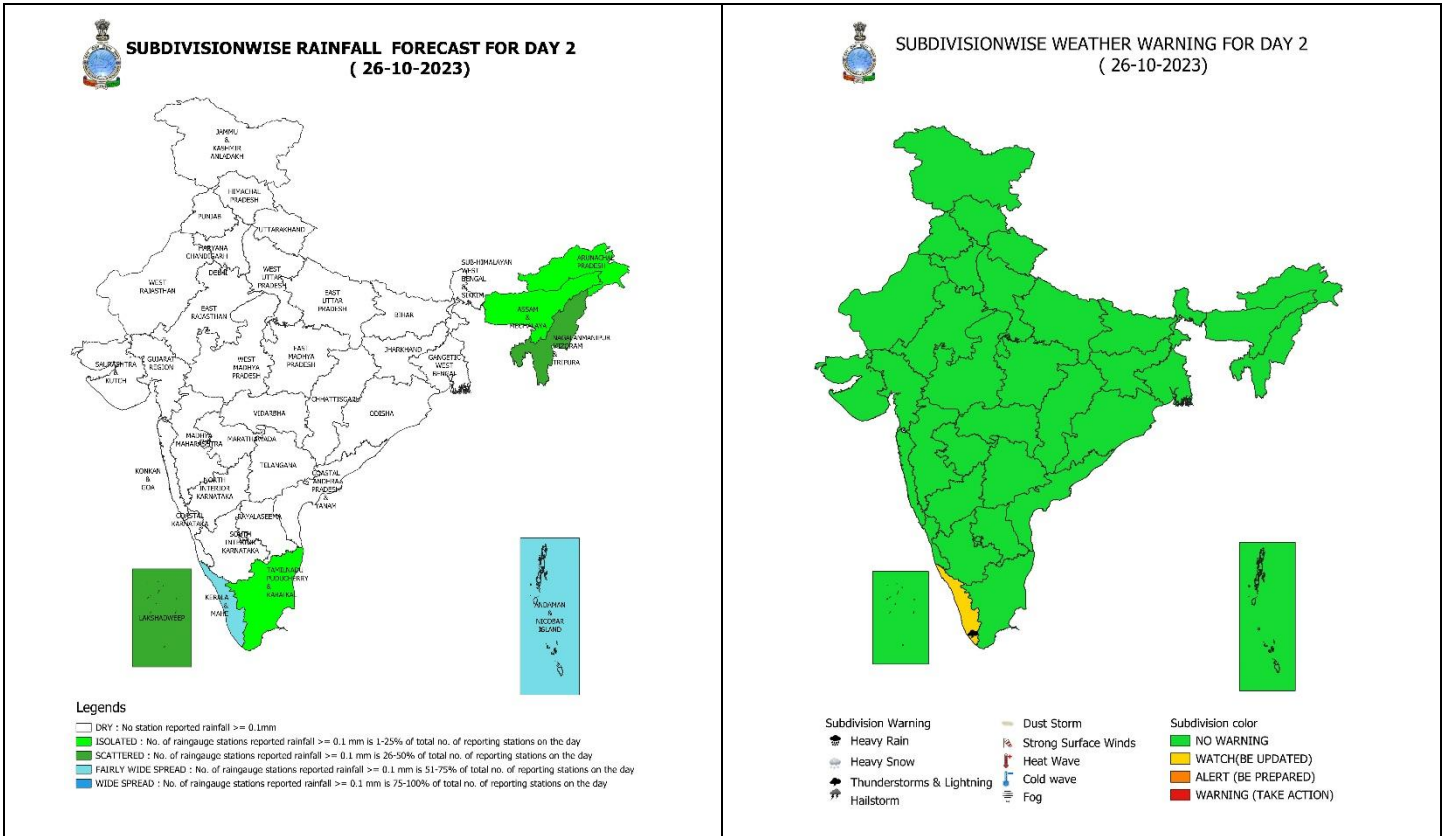


25 October (Day 1):

- ❖ **Heavy rainfall** very likely at isolated places over south Assam, Mizoram.
- ❖ **Thunderstorm with lightning & gusty winds (30-40 kmph)** very likely at isolated places over Kerala & Mahe and **with lightning** at isolated places over Nagaland, Manipur, Mizoram, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Northeast Bay of Bengal: Gale wind** speed reaching **60-70 kmph** gusting to **80 kmph** is prevailing and likely to decrease gradually becoming **Squally wind** speed reaching **45-55 kmph** gusting to **65 kmph** by 25th noon and would decrease thereafter.
- ❖ **Northwest Bay of Bengal: Squally wind** speed reaching **40-50 kmph** gusting to **60 kmph** is prevailing and likely to continue during next 06 hours and decrease thereafter.
- ❖ **Adjoining eastcentral Bay of Bengal: Squally wind** speed reaching **45-55 kmph** gusting to **65 kmph** is prevailing, likely to continue during next 06 hours and decrease thereafter.
- ❖ **Along & off Bangladesh and north Myanmar coasts: Gale wind** speed reaching **60-70 kmph** gusting to **80 kmph** is prevailing along & off Bangladesh and adjoining north Myanmar coast and likely to decrease gradually become **squally wind** speed reaching **40-50 kmph** gusting to **60 kmph** by 25th noon and would decrease further thereafter. **Squally wind** speed reaching **50-60 kmph** gusting to **70 kmph** likely along & off remaining parts of north Myanmar coast during the same period and decrease thereafter.
- ❖ **Mizoram, Tripura, south Assam and Manipur: Squally wind** speed reaching **30-40 kmph** gusting to **50 kmph** is likely to prevail over Mizoram and Tripura and Strong wind speed reaching **25-35 kmph** gusting to **45 kmph** over south Assam & Manipur on 25th October.

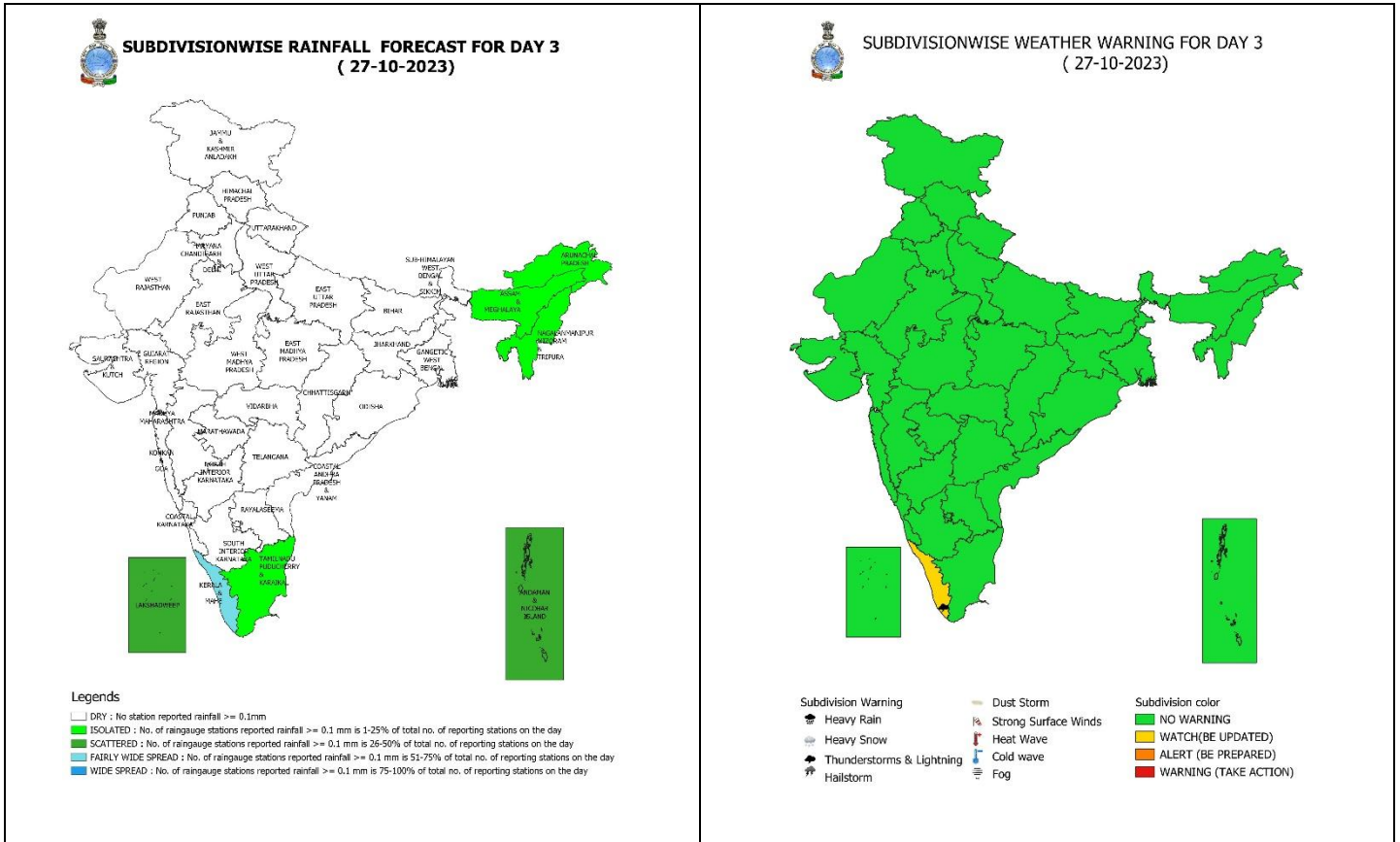
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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)



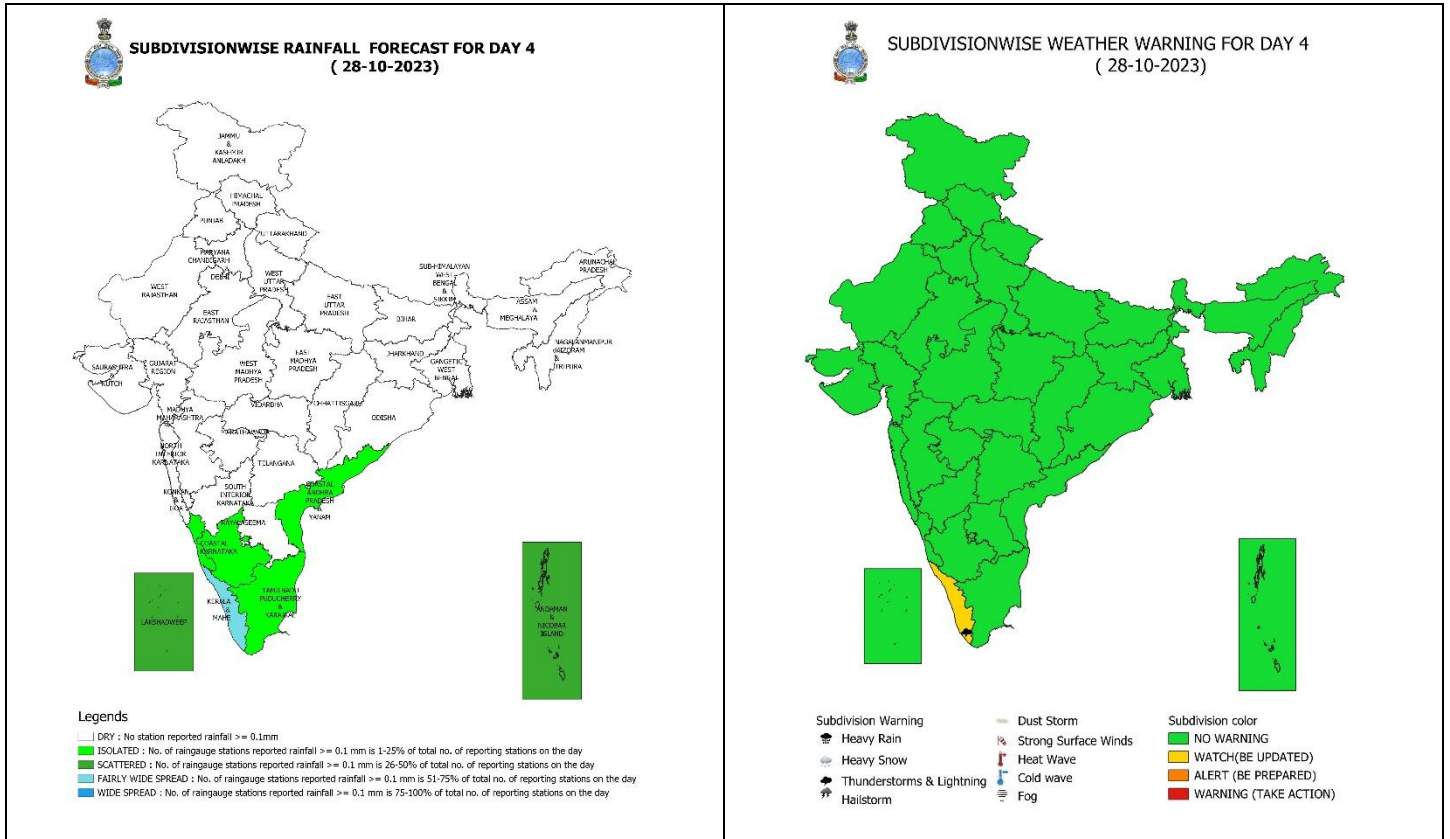
26 October (Day 2):

❖ **Thunderstorm with lightning** very likely at isolated places over Kerala & Mahe.



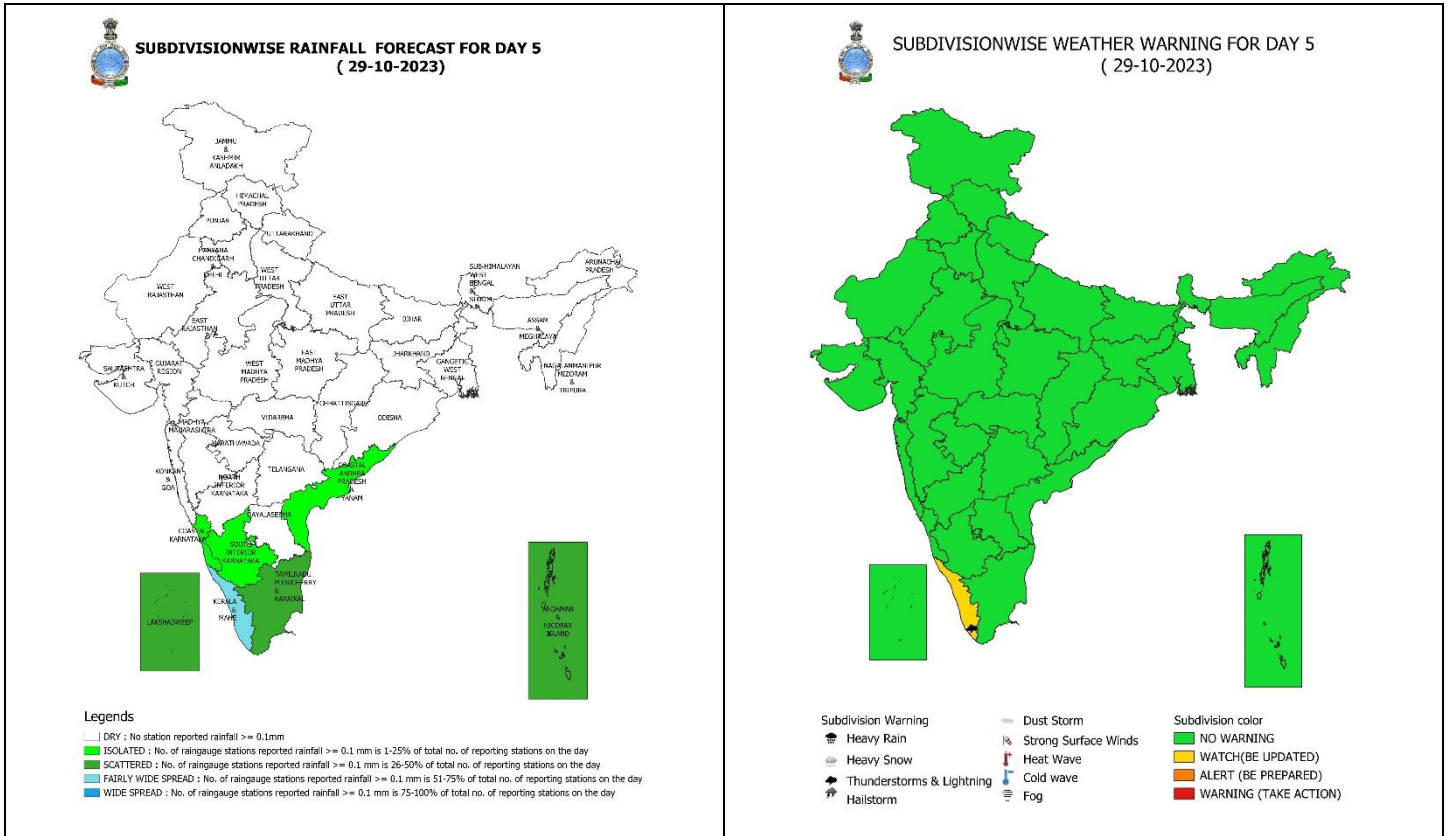
27 October (Day 3):

❖ **Thunderstorm with lightning** likely at isolated places over Kerala & Mahe.



28 October (Day 4):

❖ **Thunderstorm with lightning** likely at isolated places over Kerala & Mahe.



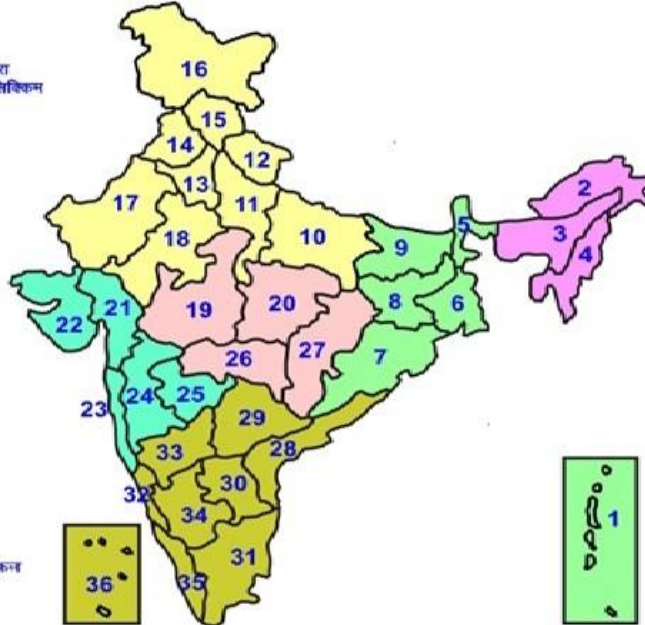
29 October (Day 5):

❖ **Thunderstorm with lightning** likely at isolated places over Kerala & Mahe.



LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडीगढ़ 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
- 22 सौराष्ट्र
- 23 कोंकण
- 24 मध्य महाराष्ट्र
- 25 महाराष्ट्र
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 चण्डीगढ़
- 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. Odisha
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 Widespred (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 Occurance (%)
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)