



Friday, November 17, 2023  
Time of Issue: 1315 hours IST  
(MID-DAY)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### **Weather Systems:**

- ❖ The **cyclonic storm "Midhili" (pronounced as "Midhili")** over Northwest Bay of Bengal moved north-northeastwards with a speed of 26 kmph during past 6 hours and lay centered at 0830 hours IST of today, the 17<sup>th</sup> November over Northwest and adjoining Northeast Bay of Bengal near latitude 20.8°N and longitude 89.0°E, about 250 km east-northeast of Paradip (Odisha), 180 km east-southeast of Digha (West Bengal) and 180 km southwest of Khepupara (Bangladesh). It is likely to continue to move north-northeastwards and cross Bangladesh coast close to Khepupara with wind speed of 60-70 kmph gusting to 80 kmph during night of 17<sup>th</sup> November, 2023.
- ❖ An upper air **Cyclonic Circulation** lies over Southwest Bay of Bengal & adjoining Sri Lanka and a **trough** runs from this cyclonic circulation to the cyclonic circulation associated with the **Cyclonic Storm** over Northwest & adjoining Northeast Bay of Bengal in the lower tropospheric levels.
- ❖ A **Cyclonic Circulation** lies over south Andaman Sea in lower & middle tropospheric levels.

#### **Forecast & Warnings associated with Cyclonic Storm**

##### **(i) Rainfall Warning:**

- Light to moderate rainfall at many places with **isolated heavy rainfall** is likely over coastal districts of West Bengal (North 24 Parganas) till evening of 17<sup>th</sup> November.
- Light to moderate rainfall at most places with **isolated heavy to very heavy rainfall** is likely over Nagaland, Manipur, Mizoram & Tripura on 17<sup>th</sup> & 18<sup>th</sup> November with **extremely heavy fall** at isolated places over Mizoram & Tripura on 17<sup>th</sup> November.
- Light to moderate rainfall at many places with **isolated heavy rainfall** is likely over south Assam and east Meghalaya on 17<sup>th</sup> & 18<sup>th</sup> November.

##### **(ii) Fishermen Warning:**

Fishermen are advised not to venture into

- North Bay of Bengal and along & off Bangladesh coast till 18<sup>th</sup> November afternoon
- Along & off West Bengal coast till 18<sup>th</sup> November morning.

#### **Forecast & Warnings associated with Easterly Wave:**

Light to moderate rainfall at some places with **isolated heavy rainfall** is very likely over Tamil Nadu on 17<sup>th</sup>, 19<sup>th</sup> & 20<sup>th</sup> and Kerala on 19<sup>th</sup> & 20<sup>th</sup> November, 2023.

**No significant weather likely over rest parts of the country.**



## Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal; at a few places over Kerala & Mahe, Assam & Meghalaya and at isolated places over Arunachal Pradesh, Odisha, Jharkhand and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today) over Kerala and Tamil Nadu.
- ❖ **Significant rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): **Kerala:** Enadimangalam Aws (dist Pathanamthitta) 10, Konni (dist Pathanamthitta) 9; **Tamil Nadu:** Nalumukku (dist Tirunelveli) 10, Oothu (dist Tirunelveli), Kannadaian Anicut (dist Tirunelveli) 9 each, Kakkachi (dist Tirunelveli) 8, Manjolai (dist Tirunelveli) 7.
- ❖ **Minimum Temperature Departures (as on 17-11-2023):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at most places over Gangetic West Bengal; at many places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Assam & Meghalaya, Bihar, Gujarat state and Sub-Himalayan West Bengal & Sikkim; **above normal (1.6°C to 3.0°C)** at most places over Arunachal Pradesh; at many places over Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; at a few places over Uttarakhand, Himachal Pradesh, East Uttar Pradesh, Punjab, Haryana-Chandigarh-Delhi, South Interior Karnataka and Andaman & Nicobar Islands; at isolated places over West Rajasthan and North Interior Karnataka. They are **below normal (-1.6°C to -3.0°C)** at isolated places over East Rajasthan, Madhya Pradesh, Chhattisgarh, Vidarbha, Madhya Maharashtra and **near normal** over rest parts of the country. Today, the **lowest minimum temperature of 9.2°C** is reported at **Sikar (East Rajasthan)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 16-11-2023):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Assam & Meghalaya, Gangetic West Bengal, Uttarakhand, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Chhattisgarh; **above normal (1.6°C to 3.0°C)** at a few places over Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim and at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Rayalaseema. They were **below normal (-1.6°C to -3.0°C)** at many places over Gangetic West Bengal; at a few places over Nagaland, Manipur, Mizoram & Tripura and Rajasthan and at isolated places over Odisha, Uttar Pradesh and Haryana-Chandigarh-Delhi and **near normal** over rest parts of the country. Yesterday, the highest **maximum temperature of 36.8°C** was reported at **Bulsar (Gujarat Region)**.



## Meteorological Analysis (Based on 0830 hours IST)

- ❖ The **cyclonic storm "Midhili" (pronounced as "Midhili")** over Northwest Bay of Bengal moved north-northeastwards with a speed of 26 kmph during past 6 hours and lay centered at 0830 hours IST of today, the 17<sup>th</sup> November over Northwest and adjoining Northeast Bay of Bengal near latitude 20.8°N and longitude 89.0°E, about 250 km east-northeast of Paradip (Odisha), 180 km east-southeast of Digha (West Bengal) and 180 km southwest of Khepupara (Bangladesh). It is likely to continue to move north-northeastwards and cross Bangladesh coast close to Khepupara with wind speed of 60-70 kmph gusting to 80 kmph during night of 17<sup>th</sup> November, 2023.
- ❖ The upper air **cyclonic circulation** over Southwest Bay of Bengal & adjoining Sri Lanka extending upto 3.1 km above mean sea level persists.
- ❖ The **trough** now runs from the cyclonic circulation over Southwest Bay of Bengal & adjoining Sri Lanka to the cyclonic circulation associated with **cyclonic storm "Midhili"** over Northwest & Northeast Bay of Bengal and extends upto 1.5 km above mean sea level.
- ❖ A **cyclonic circulation** lies over South Andaman Sea and extends upto 5.8 km above mean sea level.
- ❖ A fresh feeble Western Disturbance is likely to affect Western Himalayan Region around 19<sup>th</sup> November, 2023.

## Weather Forecast for next 7 days (Upto 0830 hours IST of 24<sup>th</sup> November, 2023)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ No significant change in minimum temperature over most parts of Northwest India.

## Weather Outlook for subsequent 2 days

- ❖ Scattered to fairly widespread light to moderate rainfall likely over parts of south peninsular India and Islands.
- ❖ Mainly dry weather likely to prevail over rest parts of the country.



Table-1

7 Days Rainfall Forecast								
S. No.	Subdivision	17- Nov	18- Nov	19- Nov	20- Nov	21- Nov	22- Nov	23- Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	FWS	SCT	SCT	SCT
2	ARUNACHAL PRADESH	ISOL	ISOL	DRY	DRY	ISOL	ISOL	DRY
3	ASSAM & MEGHALAYA	FWS	SCT	ISOL	DRY	ISOL	ISOL	DRY
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	FWS	ISOL	DRY	DRY	DRY	DRY
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	DRY	DRY	DRY	DRY	ISOL	DRY	DRY
6	GANGETIC WEST BENGAL	ISOL	DRY	DRY	ISOL	ISOL	DRY	DRY
7	ODISHA	DRY	DRY	DRY	ISOL	ISOL	ISOL	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	ISOL	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	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	SCT	FWS	FWS	SCT	SCT	SCT
32	COASTAL KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
35	KERALA & MAHE	FWS	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

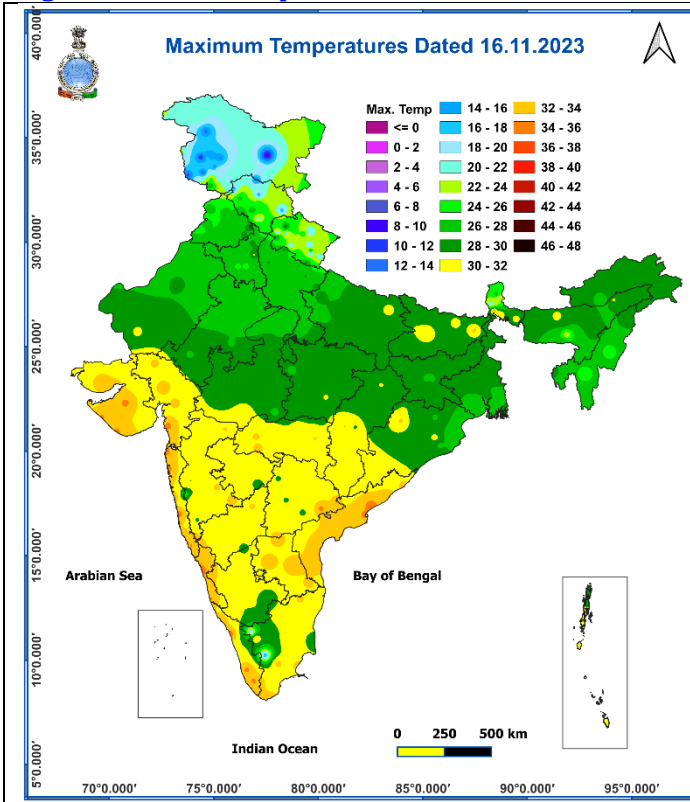


Fig. 2: Departure of Maximum Temperatures

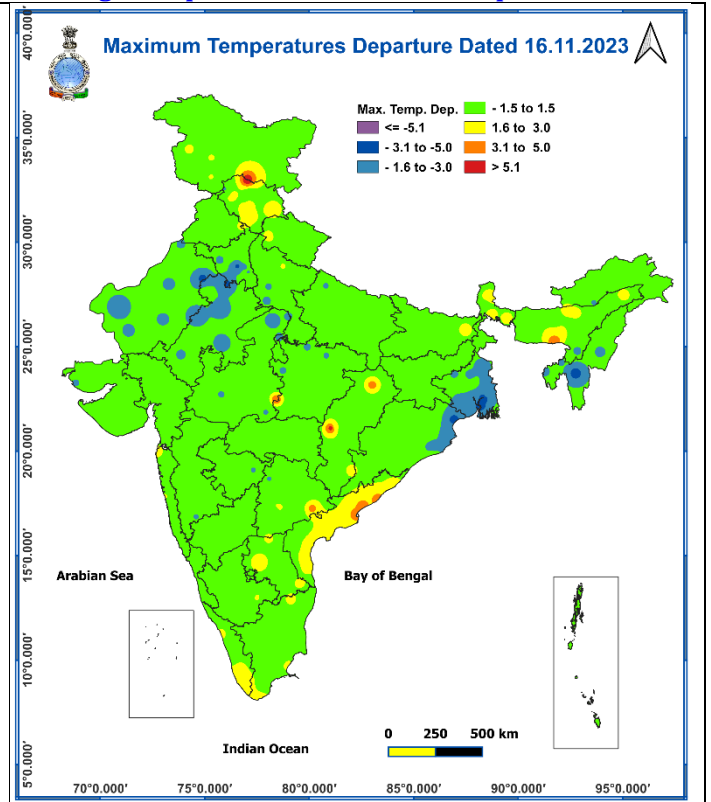


Fig. 3: Minimum Temperatures

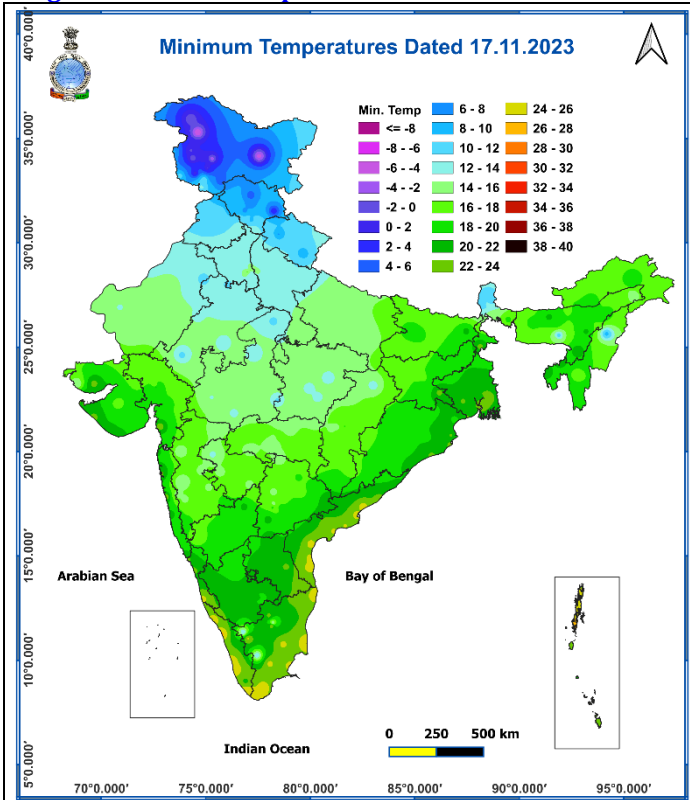
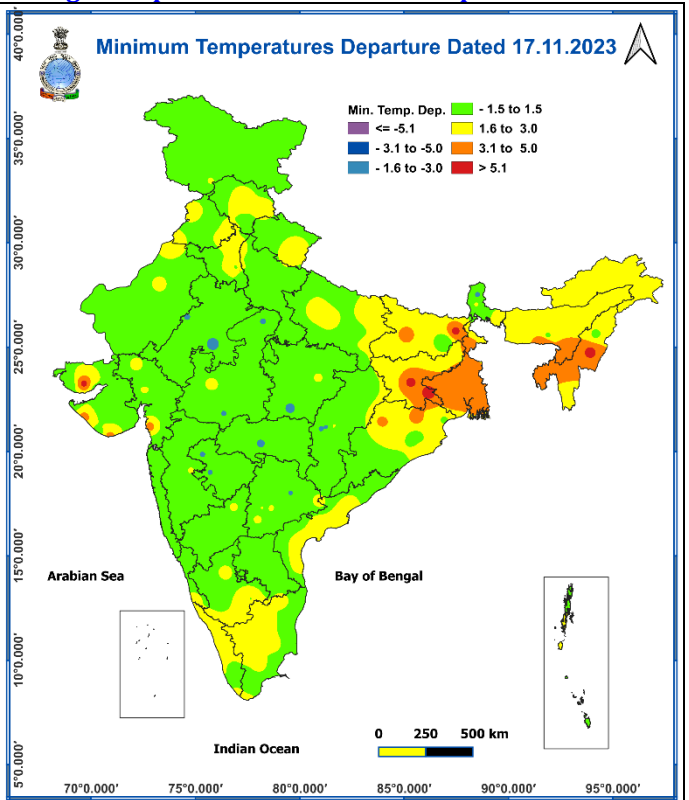


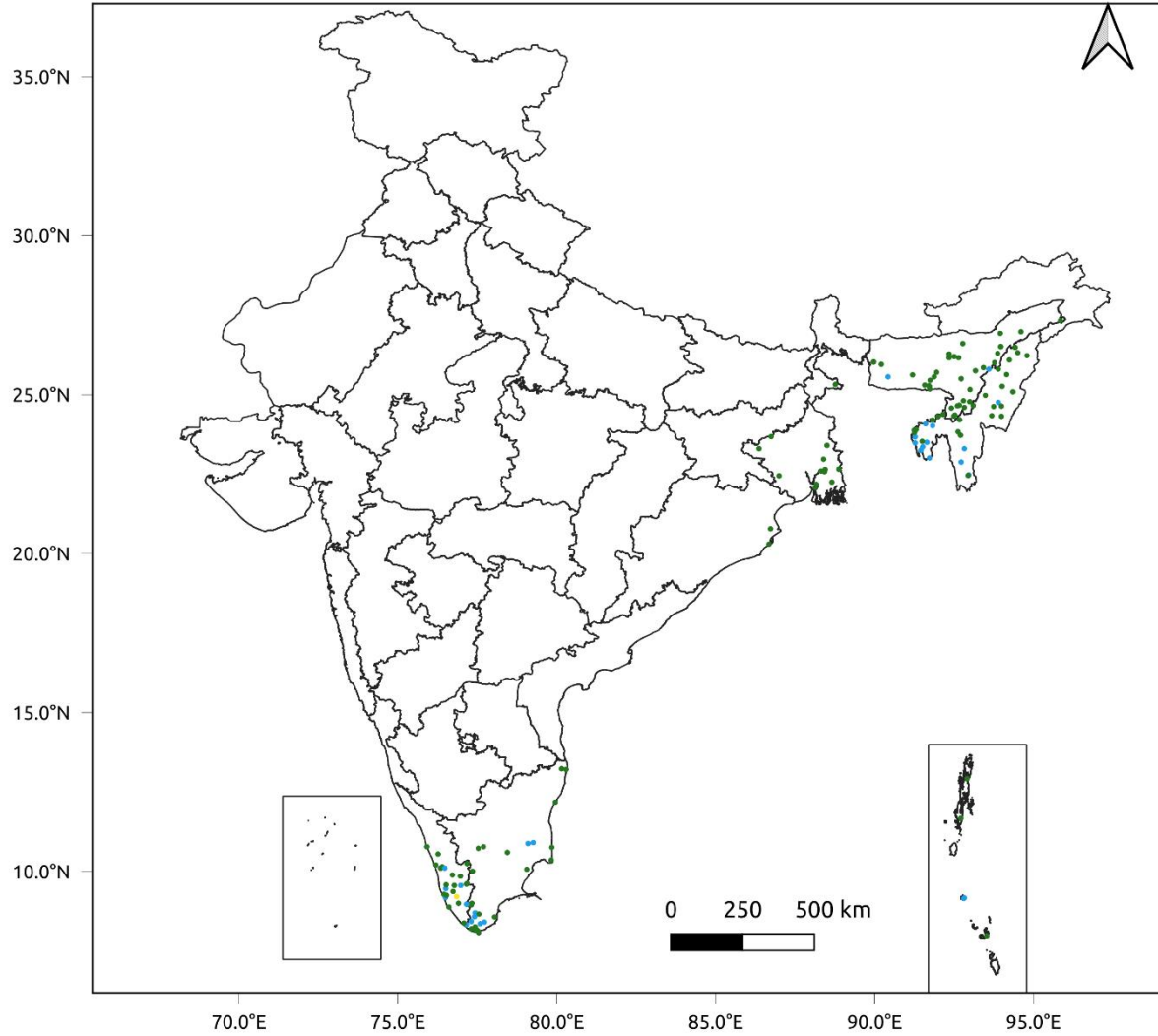
Fig. 4: Departure of Minimum Temperatures



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

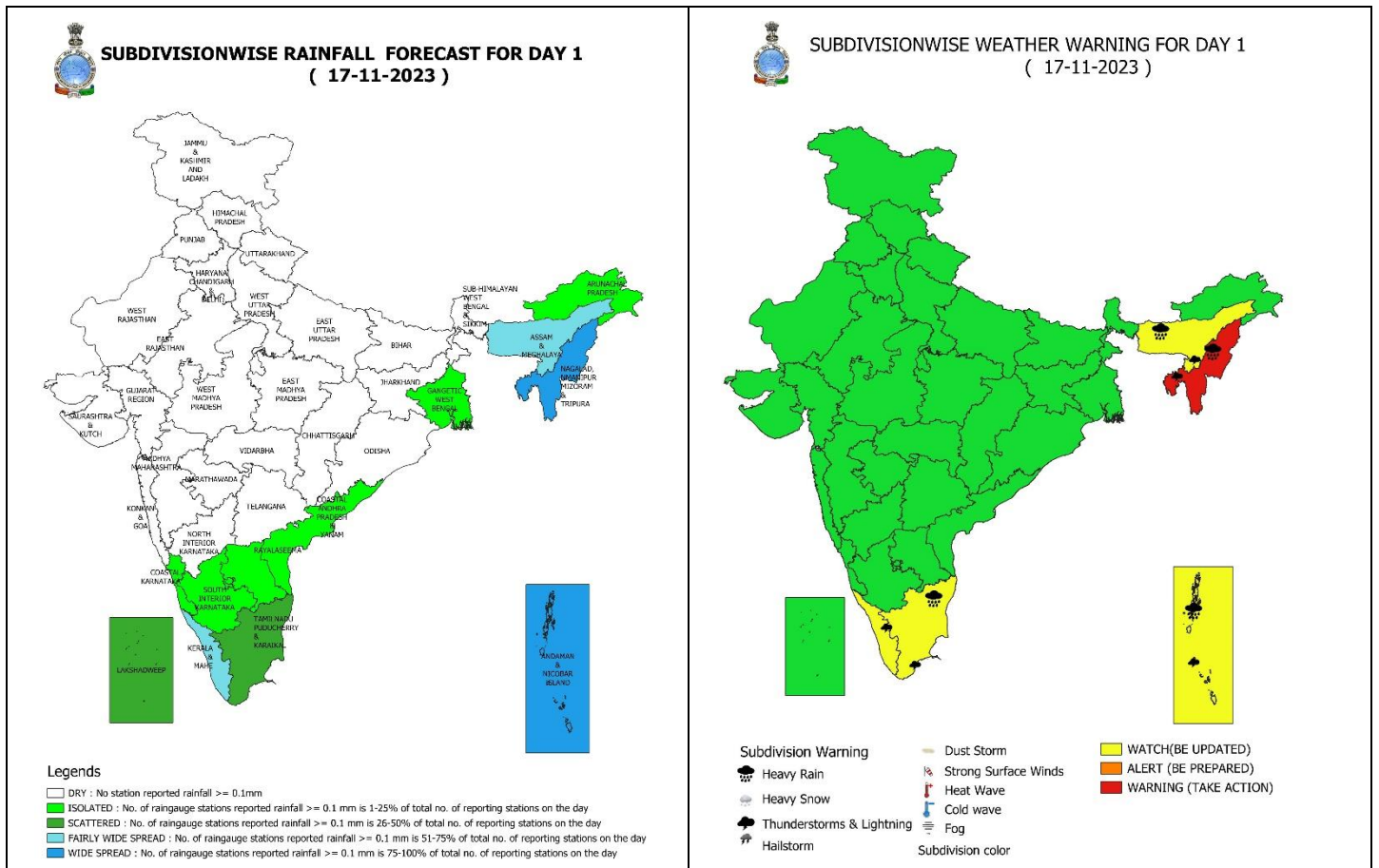


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 16-11-2023 to 0830 IST of 17-11-2023



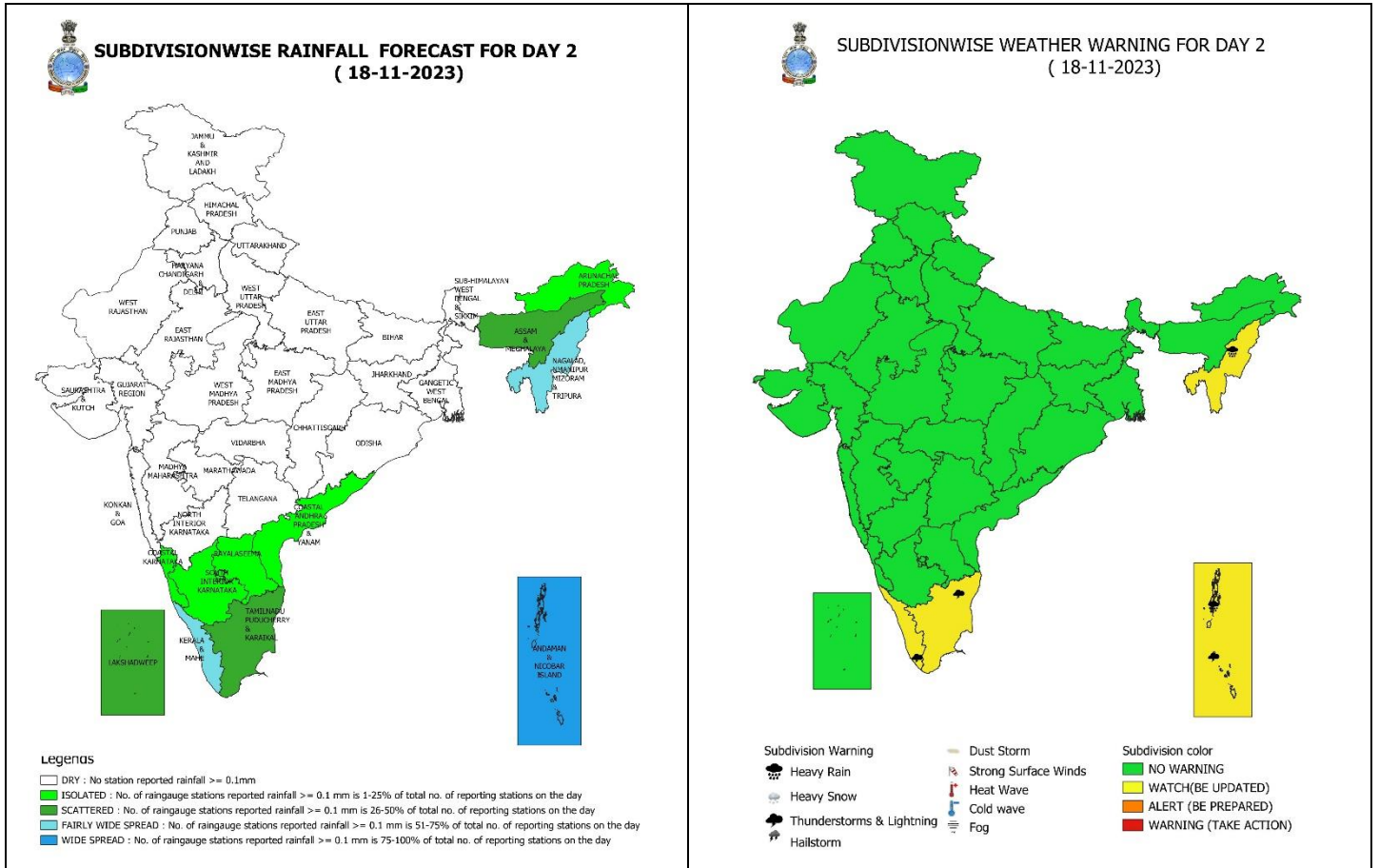
## Legends

- 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 ( $\geq 204.5$  mm)



## 17 November (Day 1):

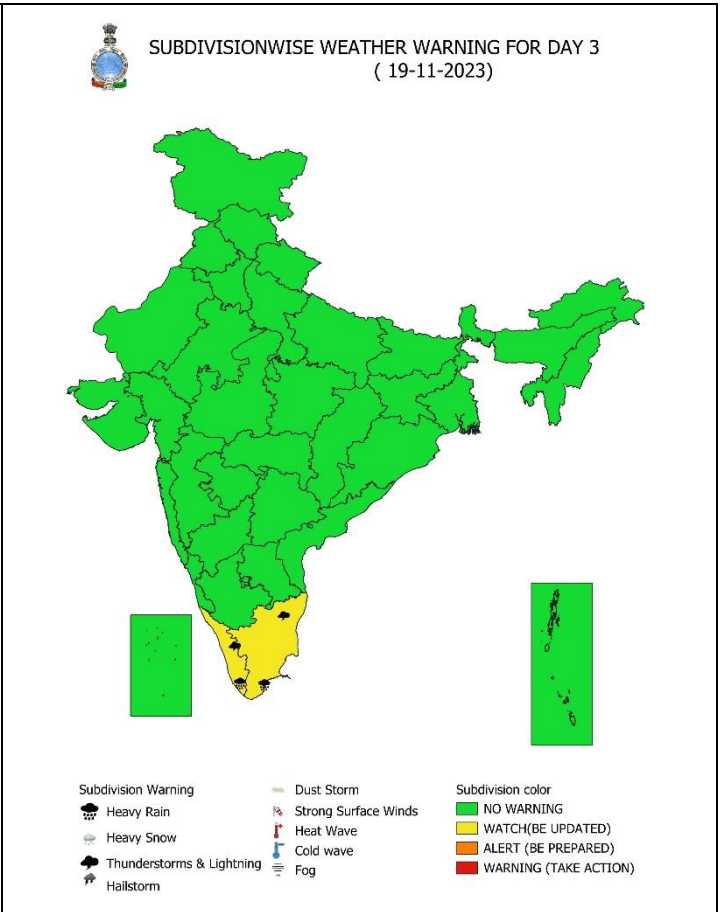
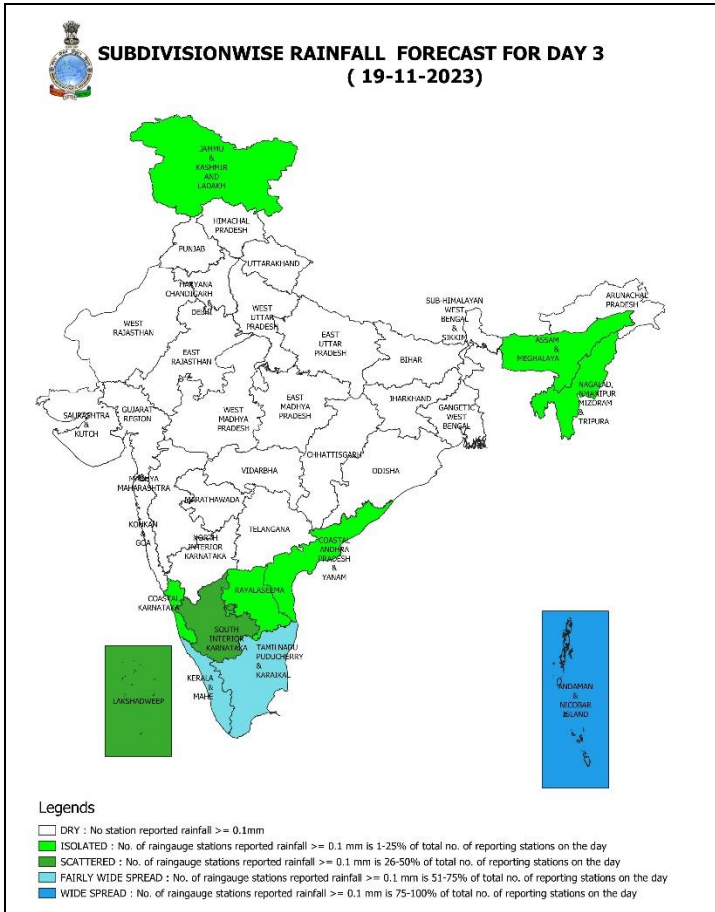
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Mizoram & Tripura and **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Manipur and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Squally wind speed reaching 60-70 kmph gusting to 80 kmph** is prevailing over Northwest & adjoining Northeast Bay of Bengal, along and off West Bengal and Bangladesh Coasts; **wind speed reaching 40-45 kmph gusting to 55 kmph** over North & adjoining central Bay of Bengal along & off Odisha Coast. Fishermen are advised not to venture into these areas.



## 18 November (Day 2):

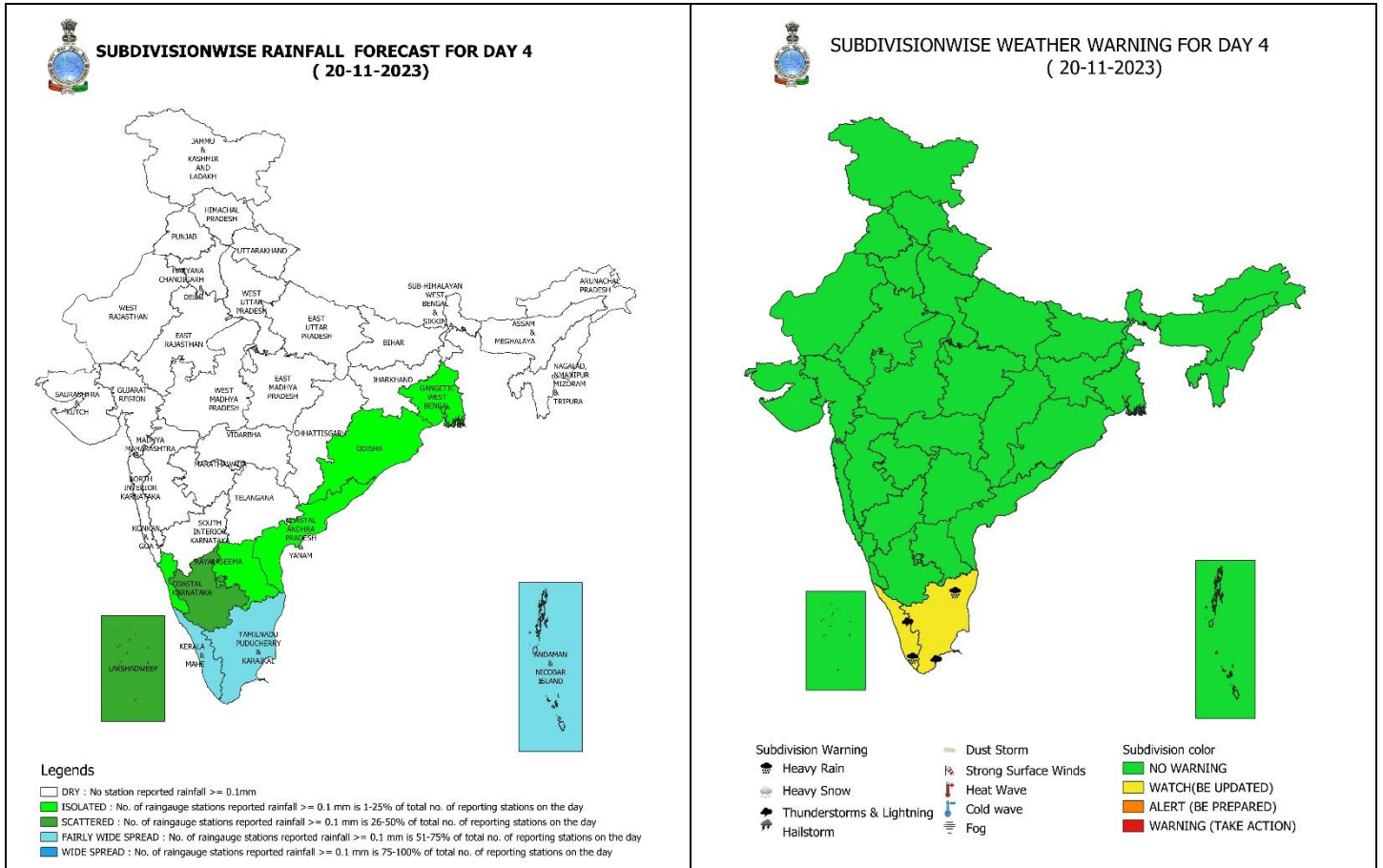
- ❖ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands and Mizoram & Tripura.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Strong wind** speed reaching **30-40 kmph gusting to 50 kmph** is likely over Tripura, Mizoram, Manipur and south Assam on 18<sup>th</sup> November.
- ❖ **Squally wind speed reaching 50-60 kmph gusting to 70 kmph** very likely over Northeast & adjoining Northwest Bay of Bengal, along and off West Bengal and Bangladesh Coasts; **wind speed reaching 40-45 kmph gusting to 55 kmph** over North & adjoining central Bay of Bengal along & off north Odisha Coast. Fishermen are advised not to venture into these areas.





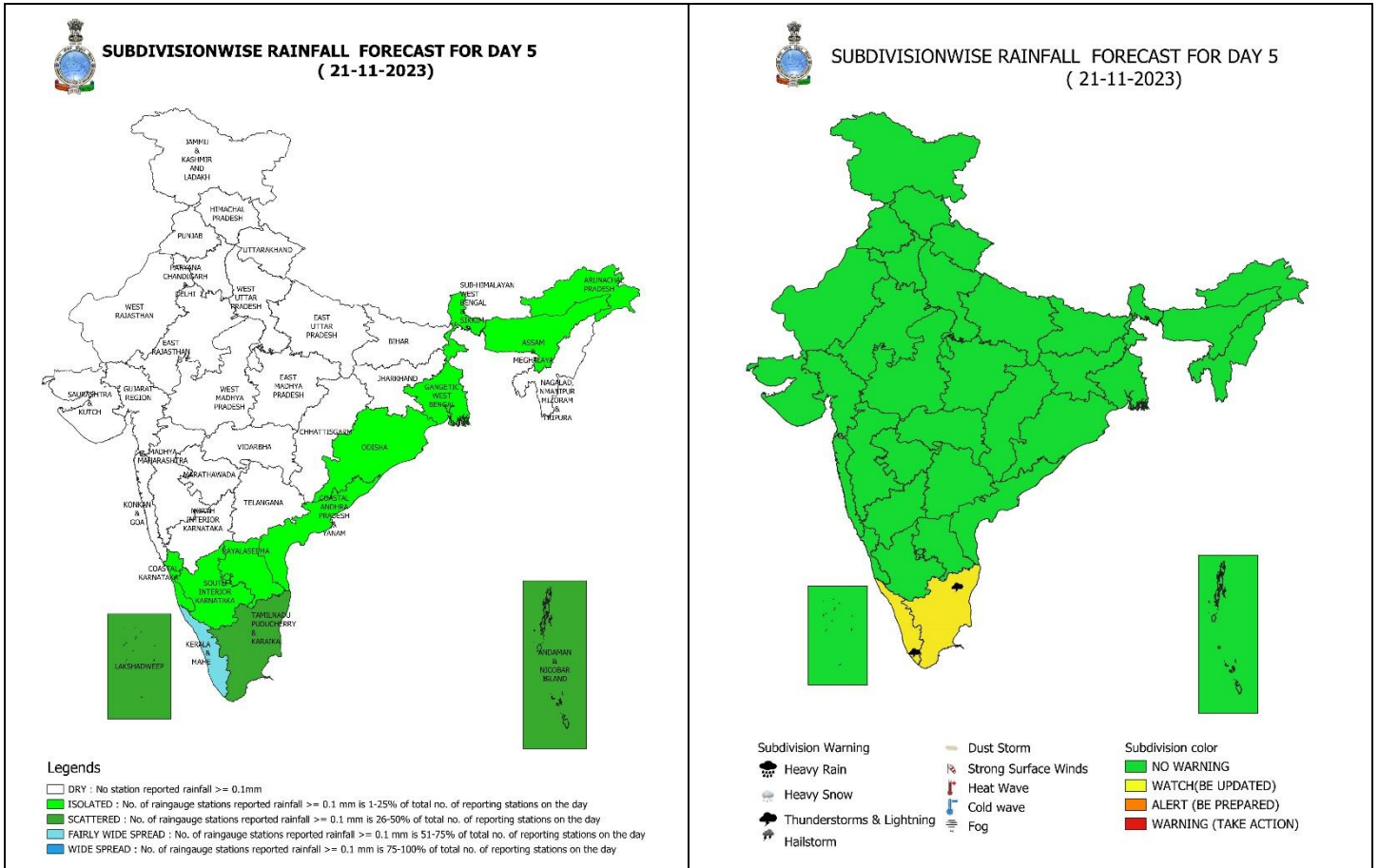
### 19 November (Day 3):

- ❖ **Heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.



## 20 November (Day 4):

- ❖ **Heavy rainfall** likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.



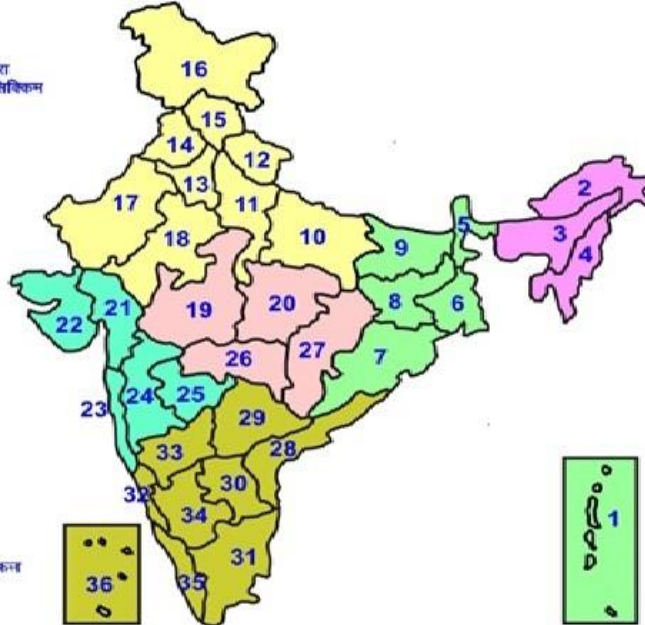
**21 November (Day 5):**

- ❖ **Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal and 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 उत्तर 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 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

## 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  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .

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  $40^\circ\text{C}$

Warm Night: When minimum temperature departure  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .

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  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .

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  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .

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

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