

Wednesday, November 6, 2024  
Time of Issue: 0745 hours IST  
(MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features:

#### Weather Systems:

- ❖ A **cyclonic circulation** lies over central parts of south Bay of Bengal in lower tropospheric levels.

#### Forecast & Warnings (upto 7 days):

- ✓ **Isolated heavy rainfall** very likely over Andaman & Nicobar Islands on 06<sup>th</sup>; south Tamil Nadu, Puducherry & Karaikal during 07<sup>th</sup>-09<sup>th</sup>; Kerala & Mahe during 08<sup>th</sup> -12<sup>th</sup>; Coastal Andhra Pradesh & Yanam during 08<sup>th</sup> -10<sup>th</sup> and Rayalaseema on 09<sup>th</sup> & 10<sup>th</sup> November.

#### Temperature conditions and Forecast:

##### Temperature Conditions during past 24 hours till 0830 hours IST of today

During past 24-hours, there has been no significant change in Minimum temperatures over the entire country. Minimum temperatures continue to be above normal by 2-5°C over Northwest India, central India, West India and by 3-5°C over Uttar Pradesh, Bihar. Maximum temperatures are above normal by 2-4°C over Punjab, Haryana, Rajasthan, Gujarat, Chhattisgarh, Madhya Pradesh, Odisha, Andhra Pradesh.

##### Forecast of temperature

- ✓ No significant change in Maximum & Minimum temperatures likely over the country during the next 1 week.

#### Weather forecast over Delhi/NCR during 06<sup>th</sup> November to 08<sup>th</sup> November 2024

##### Past Weather:

There has been slight fall in maximum temperature over Delhi/NCR during past 24hr. The Maximum and Minimum temperature over Delhi is in the range of 29-32°C and 14-19°C respectively. The maximum temperature was above normal by 1 - 2°C and minimum temperature was above normal by 2 -3°C over some places in the region. Mainly smog condition with predominant surface wind from variable directions with wind speed reaching 04-06 kmph prevailed during daytime and calm winds during night. The mainly smog condition with wind speed upto 04 -08 kmph from variable directions over the region prevailed in the forenoon.

##### Weather Forecast:

**06.11.2024:** Mainly clear sky. The predominant surface wind is likely to be from variable directions with wind speed less than 04 kmph during morning hours. Smog/Shallow fog/mist in the morning. The wind speed will increase thereafter becoming less than 08 kmph from variable directions during afternoon. It will decrease thereafter becoming less than 04 kmph from variable directions during evening and night. Smog/ mist is likely in the night.

**07.11.2024:** Mainly clear sky. The predominant surface wind is likely to be from variable directions with wind speed less than 04 kmph during morning hours. Smog/Shallow fog/mist in the morning. The wind speed will gradually increase becoming 06- 08 kmph from variable directions during afternoon. It will decrease thereafter becoming less than 04 kmph from variable directions during evening and night. Smog/ mist is likely in the night.

**08.11.2024:** Mainly clear sky. The predominant surface wind is likely to be from Southeast direction with wind speed less than 04 kmph during morning hours. Smog/Shallow fog/mist in the morning. The wind speed will increase thereafter becoming 06 - 08 kmph from variable directions during afternoon. It will gradually decrease becoming 04 - 06 kmph from variable directions during evening and night. Smog/ mist is likely in the night.

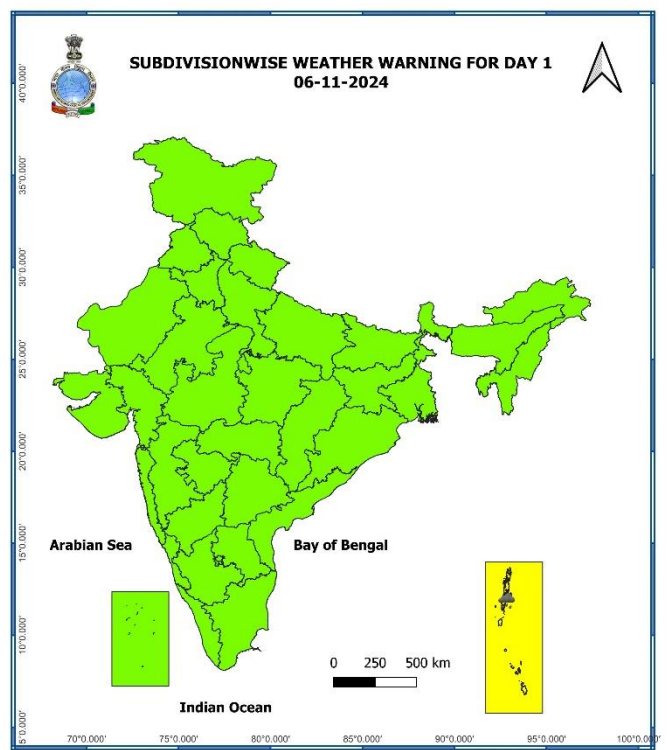
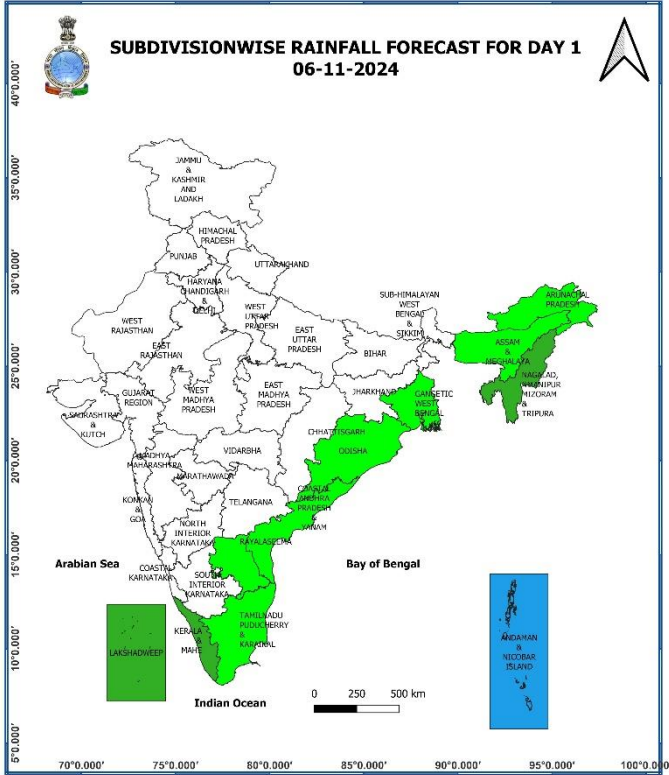
## Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over Andaman & Nicobar Islands, Lakshadweep; **at isolated places** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **NIL**
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Kerala & Mahe:** Thiruvananthapuram 4, Kozhikode 3; **Andaman & Nicobar Islands:** Port Blair 4.
- ❖ **Minimum Temperature Departures (as on 05-11-2024):** Minimum temperatures were **markedly above normal (5.1°C or more)** at isolated places over East Uttar Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at a few places over East Rajasthan; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, West Rajasthan, West Uttar Pradesh, Gujarat Region, East Madhya Pradesh, Bihar, Nagaland, Manipur, Mizoram & Tripura ; **above normal (1.6°C to 3.0°C)** at many places over Saurashtra & Kutch, Gangetic West Bengal ; at a few places over West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Vidarbha ; at isolated places over Himachal Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Jharkhand, Odisha, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Telangana, Coastal Karnataka. Yesterday, **the lowest minimum temperature** of **13.9°C** was reported at **Delhi (Ridge)** over the plains of the country. **(Fig.4)**
- ❖ **Maximum Temperature Departures (as on 05-11-2024):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gujarat Region, Chhattisgarh, Coastal Andhra Pradesh & Yanam; **above normal (1.6°C to 3.0°C)** at a few places over Rayalaseema, Saurashtra & Kutch, Lakshadweep; at isolated places over Himachal Pradesh, Uttar Pradesh, Rajasthan, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura. Yesterday, **the highest maximum temperature** of **38.4°C** was reported at **Deesa & Rajkot (Gujarat)** over the country. **(Fig. 2)**

## Meteorological Analysis (Based on 0530 hours IST)

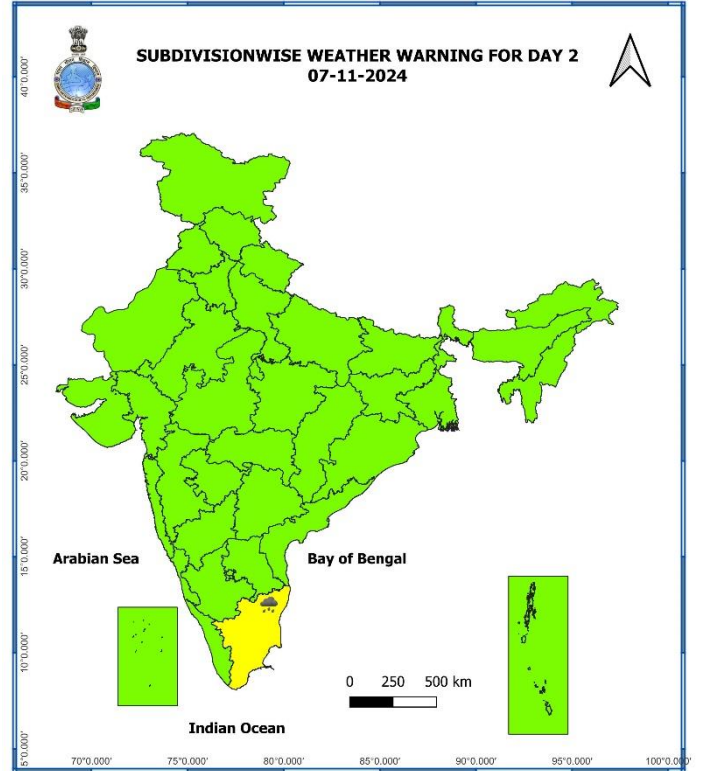
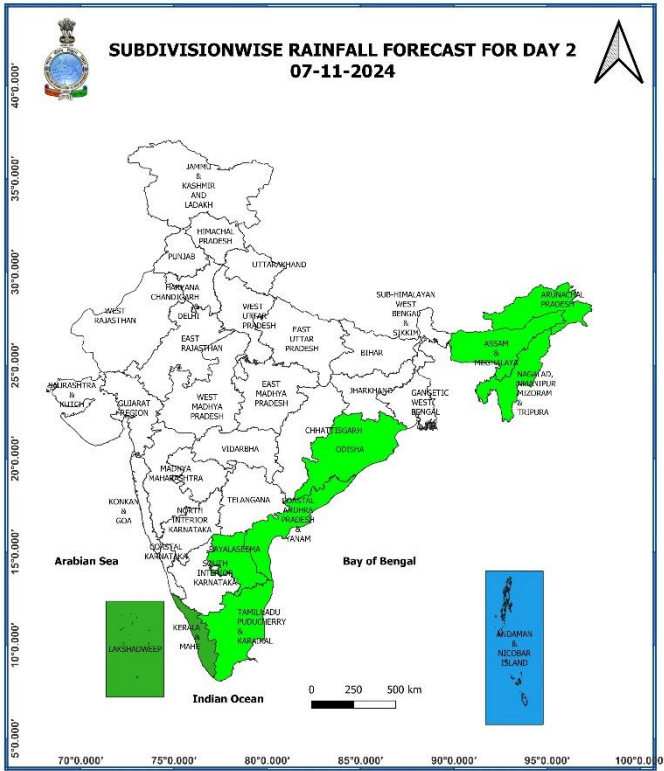
- ❖ The **cyclonic circulation** over central parts of Bangladesh between 1.5 & 3.1 km above mean sea level persists.
- ❖ The **north-south trough** roughly along Long. 89°E to the north of Lat. 23°N at 4.5 km above mean sea level persists.
- ❖ The **cyclonic circulation** over central parts of south Arabian Sea extending upto 1.5 km above mean sea level persists.
- ❖ The **cyclonic circulation** over Gulf of Mannar & adjoining Sri Lanka coast extending upto 3.1 km above mean sea level persists.
- ❖ The **cyclonic circulation** over central parts of south Bay of Bengal extending upto 1.5 km above mean sea level persists.

**Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 13<sup>th</sup> November, 2024)**



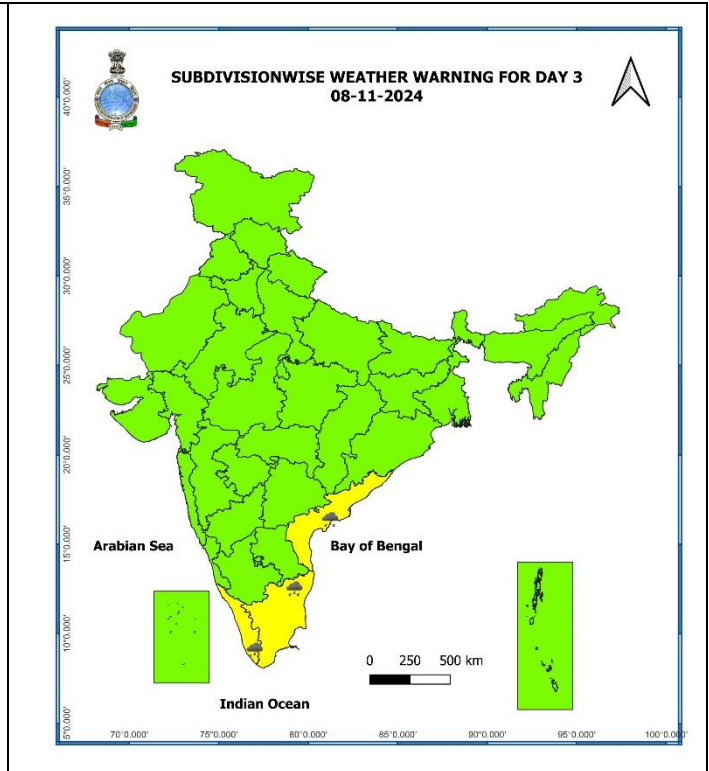
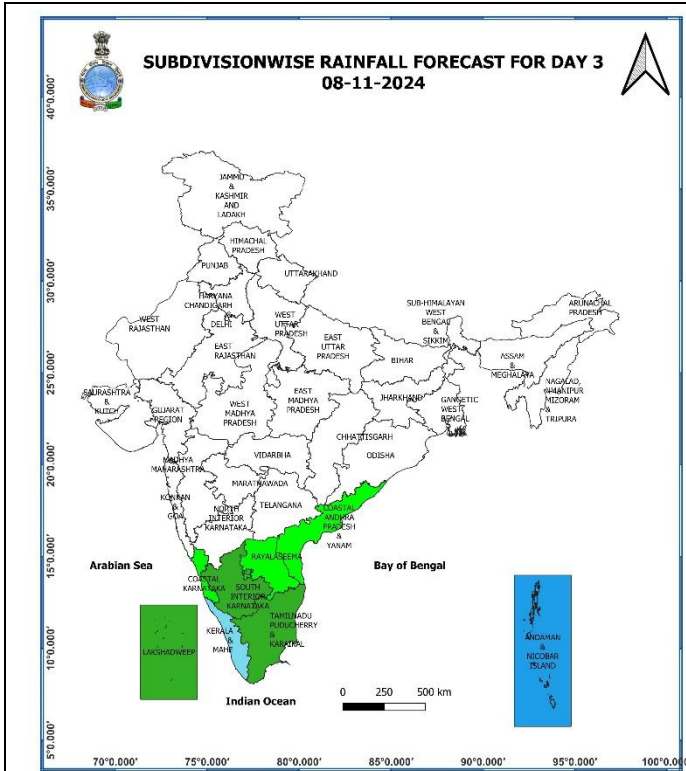
**06 November (Day 1):**

- ❖ **Heavy rainfall ( $\geq 7$  cm)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Squally weather with wind speed 35-45 kmph gusting to 55 kmph** very likely over northcentral parts of south Bay of Bengal and adjoining westcentral Bay of Bengal. Fishermen are advised not to venture into these areas.



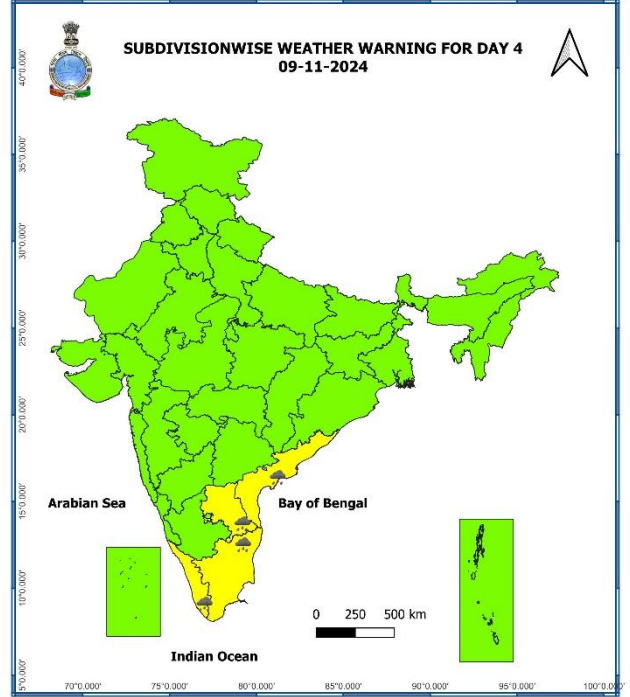
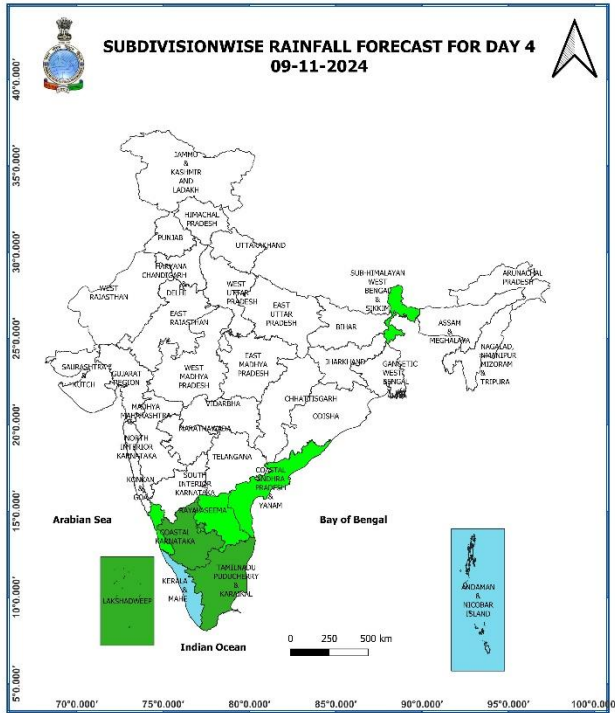
### 07 November (Day 2):

- ❖ **Heavy rainfall ( $\geq 7$  cm)** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema.
- ❖ **Shallow to Moderate fog conditions** very likely in isolated pockets of Bihar.
- ❖ **Squally weather with wind speed 35-45 kmph gusting to 55 kmph** very likely over northern parts of southwest & adjoining westcentral Bay of Bengal, off north Tamil Nadu-south Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.



### 08 November (Day 3):

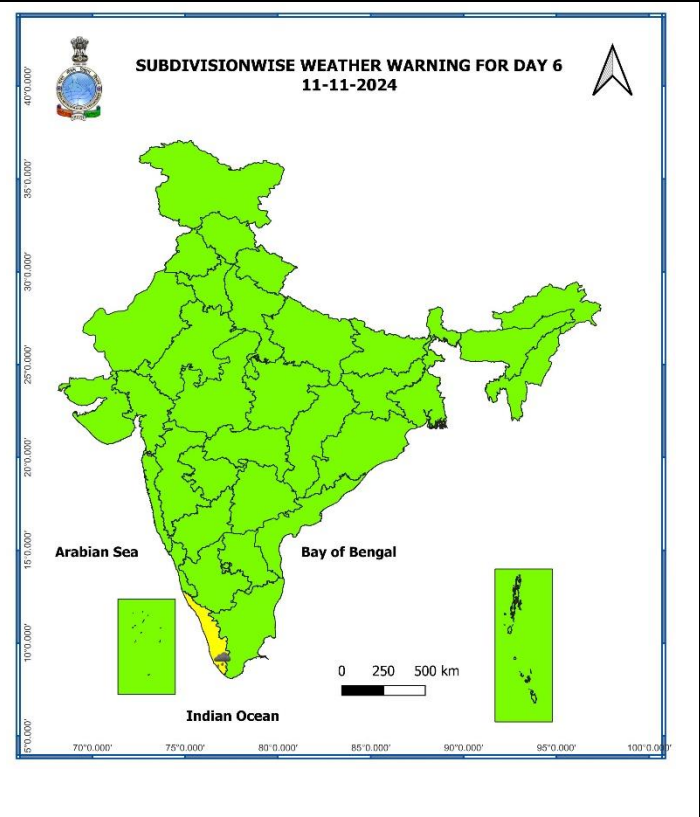
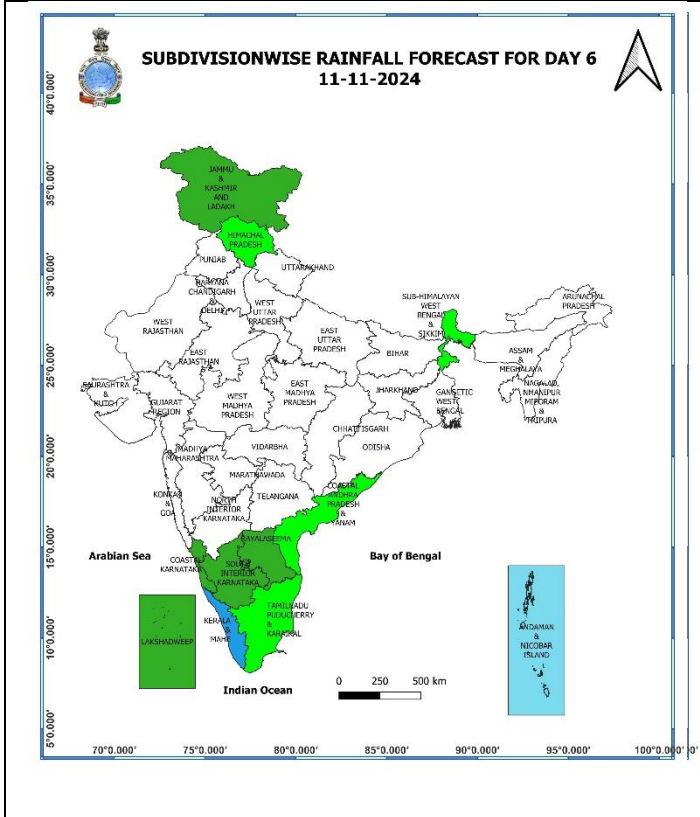
- ❖ **Heavy rainfall ( $\geq 7$  cm)** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka.
- ❖ **Shallow to Moderate fog conditions** very likely in isolated pockets of Bihar.
- ❖ **Squally weather with wind speed 35-45 kmph gusting to 55 kmph** very likely over along & off south Andhra Pradesh, adjoining north Tamil Nadu coasts and adjoining sea area. Fishermen are advised not to venture into these areas.



### 09 November (Day 4):

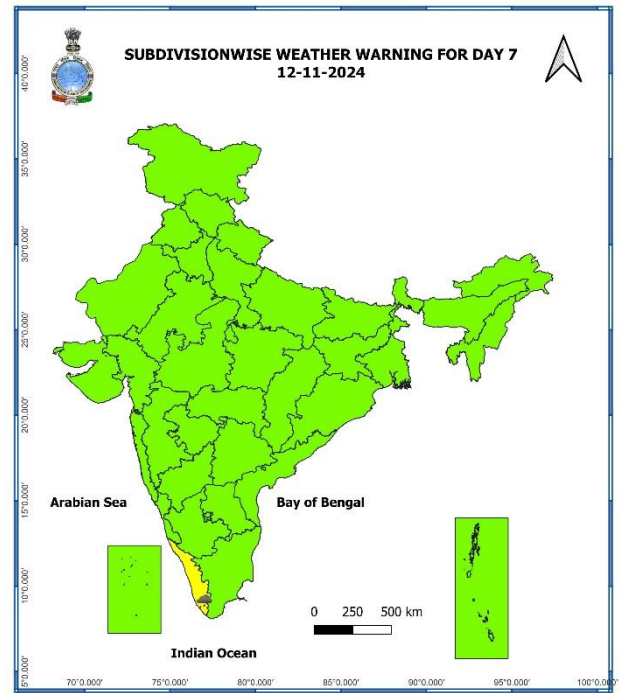
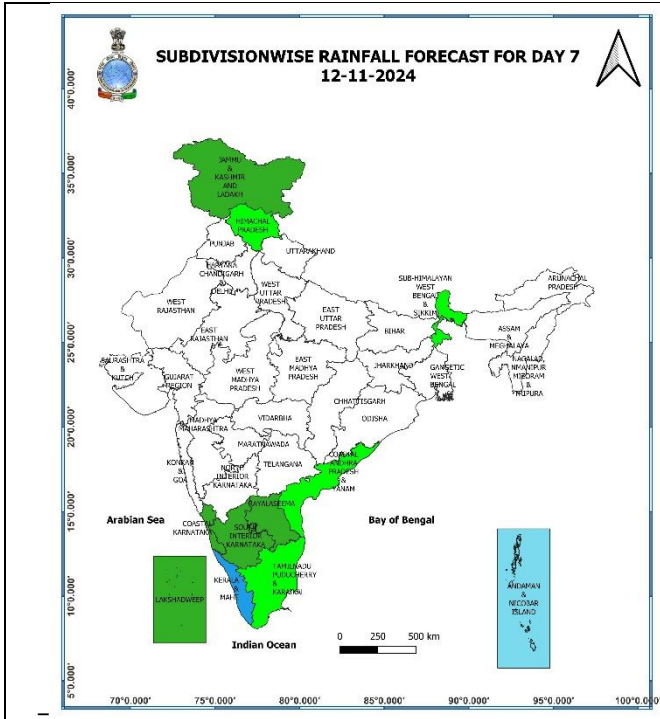
- ❖ **Heavy rainfall ( $\geq 7$  cm)** likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka.





**11 November (Day 6):**

❖ **Heavy rainfall ( $\geq 7$  cm)** likely at isolated places over Kerala & Mahe.



### 12 November (Day 7):

- ❖ Heavy rainfall ( $\geq 7$  cm) likely at isolated places over Kerala & Mahe.

### Weather Outlook for subsequent 3 days (During 13<sup>th</sup> November – 15<sup>th</sup> November, 2024)

- ❖ Isolated to Scattered light rainfall likely over some parts of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Northeast India.
- ❖ Mainly dry weather will prevail over rest parts of country.

- Action may be taken based on **ORANGE AND RED COLOUR** warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

\* Red colour warning does not mean "Red Alert", Red colour 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)



राष्ट्रीय मौसम पूर्वानुमान केन्द्र  
भारत मौसम विज्ञान विभाग  
पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre  
India Meteorological Department  
Ministry of Earth Sciences

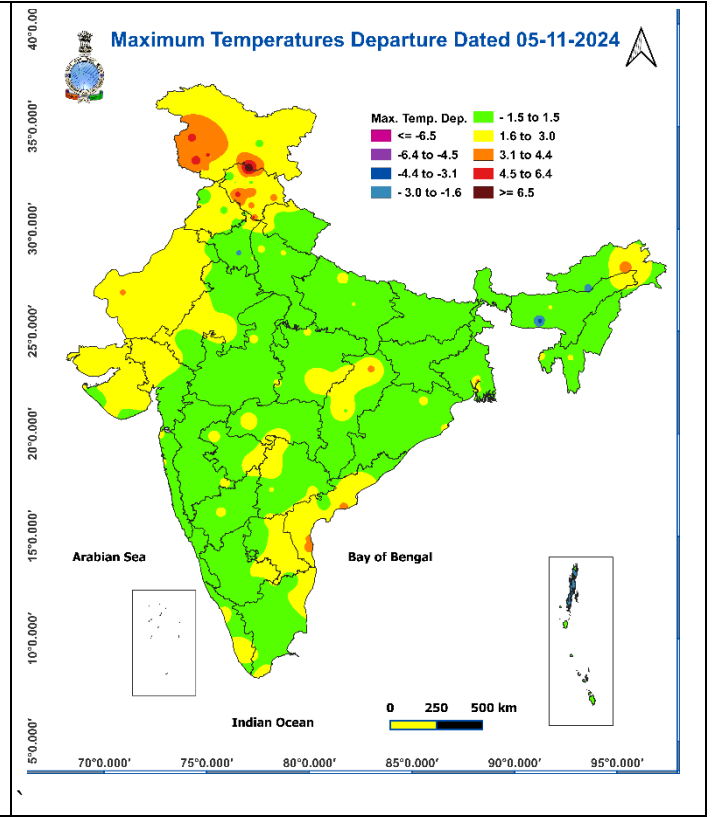
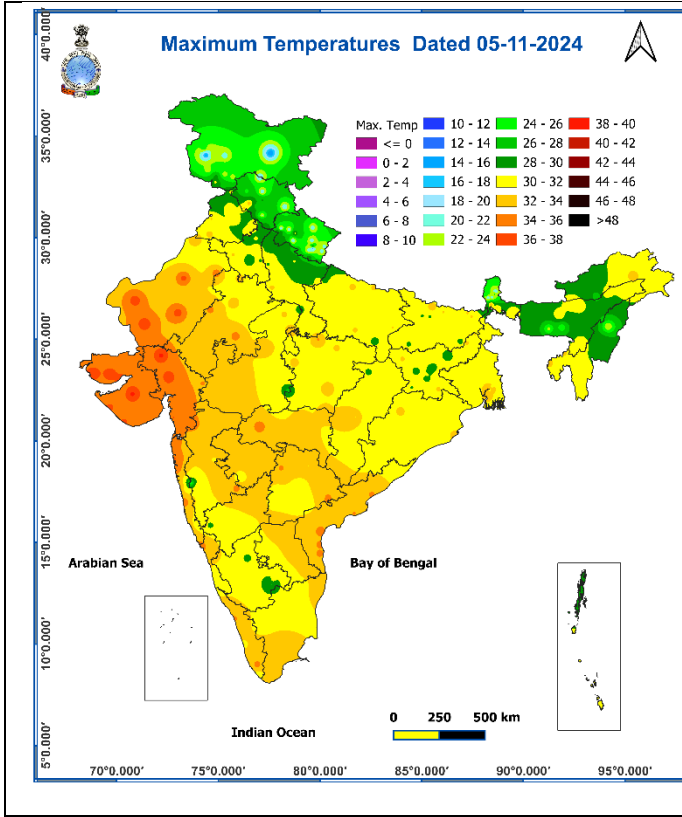
## Agromet advisories for Heavy Rainfall likely over Tamil Nadu, Kerala and Andaman & Nicobar Islands

- ✓ In **Tamil Nadu**, drain out excess water from paddy and other field crops, vegetables and orchards. Undertake propping in sugarcane and provide support to banana plantations to avoid lodging.
- ✓ Drain out excess water from the standing crops in Kerala and Andaman & Nicobar Islands.
- ✓ Keep the harvested produce at safer places.
- ✓ Provide mechanical support to horticultural crops and staking to vegetables.

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**Fig. 1: Maximum Temperatures**

**Fig. 2: Departure of Maximum Temperatures**



**Fig. 3: Minimum Temperatures**

**Fig. 4: Departure of Minimum Temperatures**

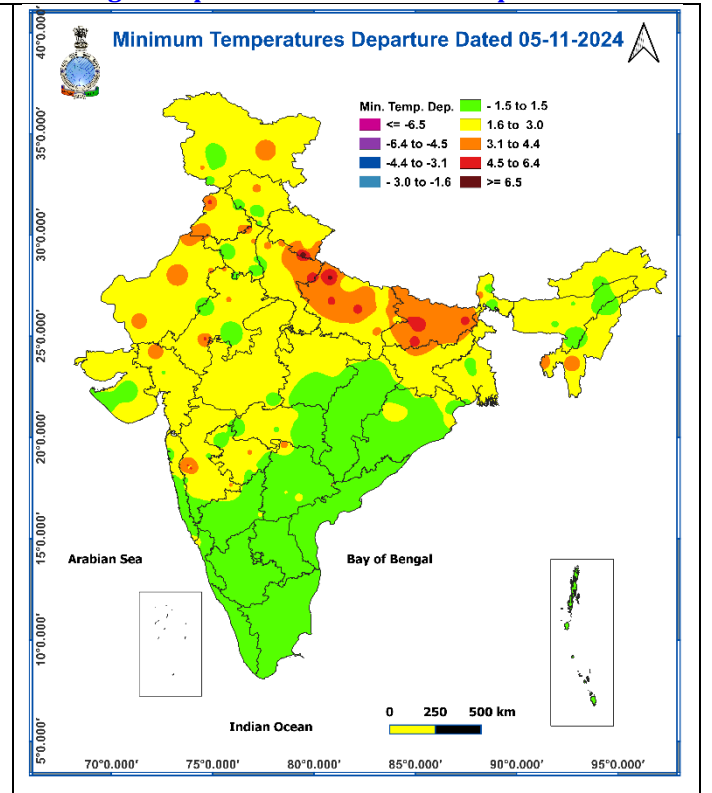
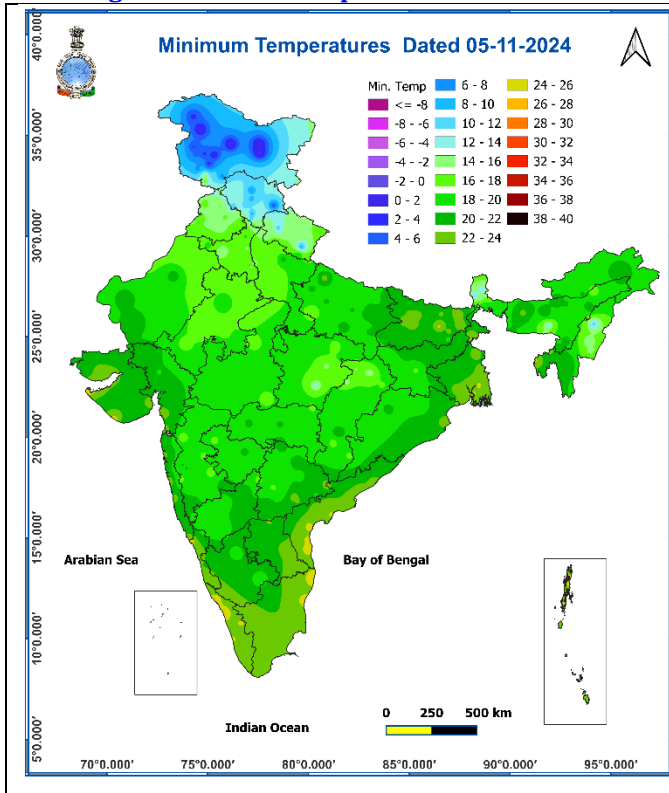
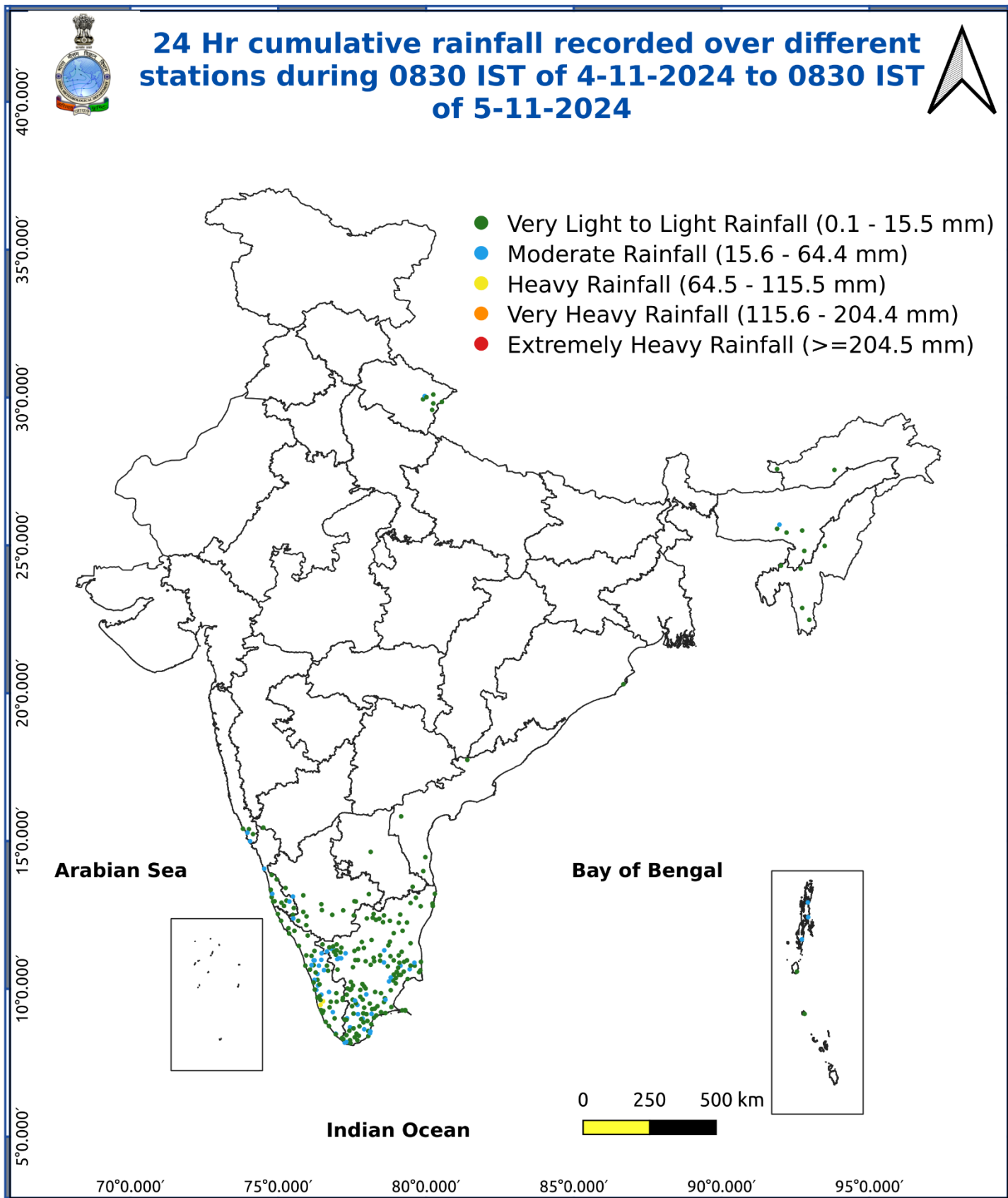


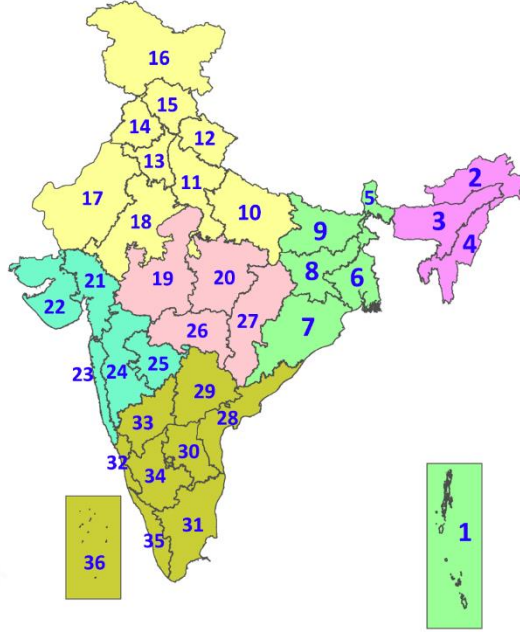
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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## LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और 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, Chandigarh & 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. Vidarbha
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)

- |                      |                      |              |
|----------------------|----------------------|--------------|
| Fog                  | Heavy Snow           | Cold Wave    |
| Heavy Rain           | Dust Storm           | Cold Day     |
| Very Heavy Rain      | Heat Wave            | Ground Frost |
| Extremely Heavy Rain | Warm Night           |              |
| Thunder & Lightning  | Hot Day              |              |
| Hailstorm            | Hot & Humid          |              |
| Dust Raising Winds   | Strong Surface Winds |              |

### COLOUR CODED WARNING

No Warning (No Action)
Watch (Be Aware)
Alert (Be Prepared To Take Action)
Warning (Take Action)

### Probabilistic Forecast

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

## DEFINITION/CRITERIA

<b>Rain/ Snow *</b>	<p><b>Heavy:</b> 64.5 to 115.5 mm/cm *</p> <p><b>Very Heavy:</b> 115.6 to 204.4 mm/cm*</p> <p><b>Extremely Heavy:</b> &gt; 204.4 mm/cm *</p>
<b>Heat Wave</b>	<p>When maximum temperature of a station reaches <math>\geq 40^\circ\text{C}</math> for plains and <math>\geq 30^\circ\text{C}</math> for hilly regions</p> <p><b>(a) Based on Departure from normal</b></p> <p><b>Heat Wave:</b> Maximum Temperature Departure from normal <math>4.5^\circ\text{C}</math> to <math>6.4^\circ\text{C}</math>.</p> <p><b>Severe Heat Wave:</b> Maximum Temperature Departure from normal <math>\geq 6.5^\circ\text{C}</math></p> <p><b>(b). Based on Actual maximum temperature</b></p> <p><b>Heat Wave:</b> When actual maximum temperature <math>\geq 45^\circ\text{C}</math>.</p> <p><b>Severe Heat Wave:</b> When actual maximum temperature <math>\geq 47^\circ\text{C}</math></p> <p><b>(c) Criteria for heat wave for coastal stations</b></p> <p>When maximum temperature departure is <math>&gt;4.5^\circ\text{C}</math> from normal. Heat Wave may be described provided maximum temperature <math>\geq 37^\circ\text{C}</math></p>
<b>Warm Night</b>	<p>When maximum temperature remains <math>40^\circ\text{C}</math></p> <p><b>Warm Night:</b> When minimum temperature departure <math>4.5^\circ\text{C}</math> to <math>6.4^\circ\text{C}</math>.</p> <p><b>Severe Warm Night:</b> When minimum temperature departure <math>&gt;6.4^\circ\text{C}</math>.</p>
<b>Cold Wave</b>	<p>When minimum temperature of a station <math>\leq 10^\circ\text{C}</math> for plains and <math>\leq 0^\circ\text{C}</math> for hilly regions.</p> <p><b>(a). Based on departure</b></p> <p><b>Cold Wave:</b> Minimum Temperature Departure from normal <math>-4.5^\circ\text{C}</math> to <math>-6.4^\circ\text{C}</math>.</p> <p><b>Severe Cold Wave:</b> Minimum Temperature Departure from normal <math>\leq -6.5^\circ\text{C}</math></p> <p><b>(b) Based on actual Minimum Temperature (for Plains only)</b></p> <p><b>Cold Wave :</b> When Minimum Temperature is <math>\leq 4.0^\circ\text{C}</math></p> <p><b>Severe Cold Wave:</b> When Minimum Temperature is <math>\leq 2.0^\circ\text{C}</math></p> <p><b>(c) For Coastal Stations</b></p> <p>When Minimum Temperature departure is <math>\leq -4.5^\circ\text{C}</math> &amp; actual Minimum Temperature is <math>\leq 15^\circ\text{C}</math></p>
<b>Cold Day</b>	<p>When minimum temperature of a station <math>\leq 10^\circ\text{C}</math> for plains and <math>\leq 0^\circ\text{C}</math> for hilly regions</p> <p><b>Based on departure</b></p> <p><b>Cold Day:</b> Maximum Temperature Departure from normal <math>-4.5^\circ\text{C}</math> to <math>-6.4^\circ\text{C}</math>.</p> <p><b>Severe Cold Day:</b> Maximum Temperature Departure from normal <math>\leq -6.5^\circ\text{C}</math></p>
<b>Fog</b>	<p><b>Phenomenon of small droplets suspended in air and the horizontal visibility <math>&lt; 1\text{km}</math></b></p> <p><b>Moderate Fog:</b> When the visibility between 500-200 metres</p> <p><b>Dense Fog:</b> when the visibility between 50- 200 metres</p> <p><b>Very Dense Fog:</b> when the visibility <math>&lt; 50</math> metres</p>
<b>Thunderstorm</b>	<p>Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)</p>
<b>Dust/Sand Storm</b>	<p>An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.</p>
<b>Frost</b>	<p>Ice deposits on ground</p> <p>Air temperature <math>\leq 4^\circ\text{C}</math> ( over Plains)</p>
<b>Squall</b>	<p><b>A strong wind that rises suddenly, lasts for atleast 1 minute.</b></p> <p><b>Moderate:</b> Wind speed 52-61 kmph</p> <p><b>Severe:</b> Wind speed 62-87 kmph</p> <p><b>Very Severe:</b> Wind speed <math>&gt;87</math> kmph</p>
<b>Sea State</b>	<p><b>Effect of various waves in the sea over specific area</b></p> <p><b>Rough to very rough:</b> Wind speed 41-62 kmph (22-33 knots) &amp; Wave height 2.5-6 metre</p> <p><b>High to very high:</b> Wind speed 63-117 kmph ( 34-63 knots) &amp; Wave height 6-14 metre</p> <p><b>Phenomenal:</b> Wind speed <math>&gt;117</math> kmph (<math>&gt;63</math> knots) &amp; Wave height <math>&gt;14</math> metre</p>
<b>Cyclone</b>	<p><b>Cyclonic Storm:</b> Wind speed 62-87 kmph (34-47 knots)</p> <p><b>Severe Cyclonic Storm:</b> Wind speed 88-117 kmph (48-63 knots)</p> <p><b>Very Severe Cyclonic Storm:</b> Wind speed 118-165 kmph (64 - 89 knots)</p> <p><b>Extremely Severe Cyclonic Storm:</b> Wind speed 166-220 kmph (90 -119 knots)</p> <p><b>Super Cyclone Strom:</b> Wind speed <math>&gt;220</math> kmph (<math>&gt;119</math> knots)</p>