

Saturday, October 26, 2024
Time of Issue: 0830 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems:

- ❖ The **depression (remnant of severe cyclonic storm "DANA")** over north Odisha moved slightly westwards during past 6 hours and weakened into a **well marked low pressure area** over the same region. It is likely to weaken further and become insignificant during next 12 hours.
- ❖ A **cyclonic circulation** lies over Southeast Arabian Sea off south Kerala coast in lower tropospheric levels.
- ❖ A fresh **Western Disturbance** as a trough in mid-tropospheric westerlies with its axis in middle tropospheric levels roughly along Long. 50°E to the north of Lat. 28°N

Forecast & Warnings (upto 7 days):

South Peninsular India

- ✓ Light to moderate rainfall at a few places accompanied with isolated thunderstorm and lightning very likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep during next 2-3 days and reduction thereafter.
- ✓ **Isolated heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal on 26th and over Kerala & Mahe on 26th & 27th October.

Northeast, Central, East, & Northwest India

- ✓ No significant rainfall likely over these regions during the week.

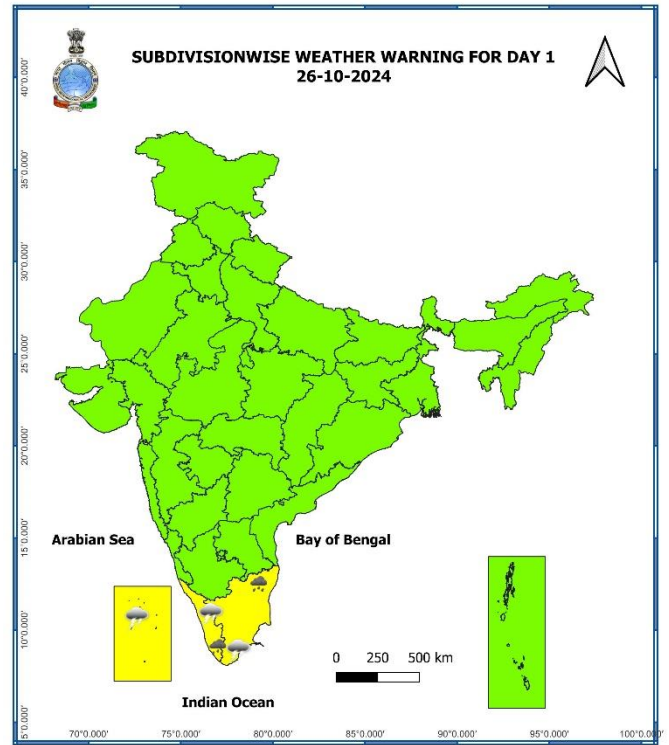
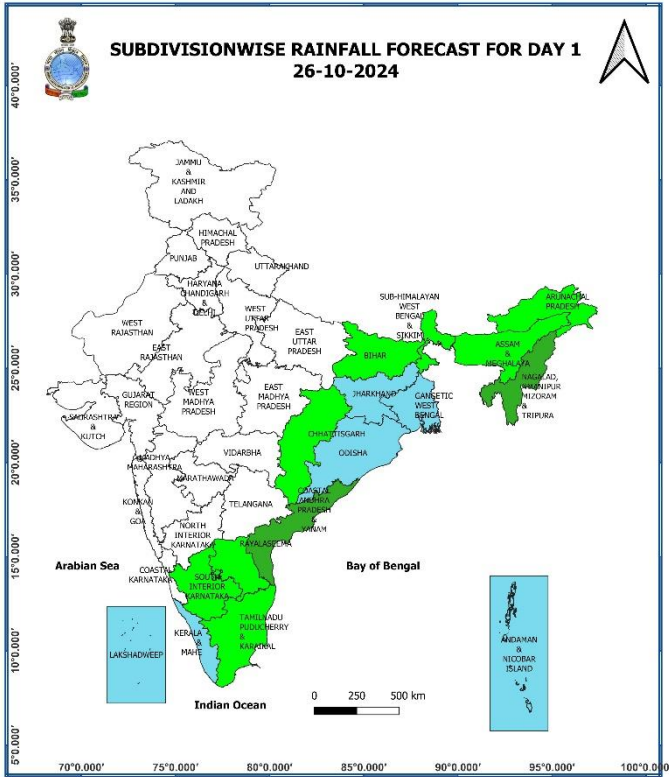
Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Gangetic West Bengal; **at few places** over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Odisha, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Andaman & Nicobar Islands; **at isolated places** over Lakshadweep, Bihar, Arunachal Pradesh.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy to very heavy rainfall** at isolated places over Tamil Nadu, Puducherry & Karaikal, Odisha; **Heavy rainfall** at isolated places over Kerala & Mahe, Coastal Karnataka, Gangetic West Bengal.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm):
Odisha: Jajpur, Chandbali (Bhadrak) 11 each, Balasore-7, Paradip (C.W.R.)- 1, Keongjhangarh-1;
Gangetic West Bengal: Sagar Island-8, Kolkata Alipore, Haldia, Burdwan-7 each, Uluberia, Kolkata-Salt Lake, Barracpore, Midnapore-6 each, Diamond Harbour-5, Panagarh, Bagati, Canning-4 each, Kalikunda-3, Behrampore, Bankura-2 each, Shanti Niketan-1; **Kerala & Mahe:** Thiruvananthapuram-5, Pulanur-4, Periakulum, Cochin Airport-2, Palakkad-1; **Lakshadweep:** Minocoy, Kavaratti-1 each; **Tamil Nadu, Puducherry & Karaikal:** Tondi, Coimbatore, Conoor, Kanniyakumari-1 each, **Andaman & Nicobar Islands:** Hut Bay-2.
- ❖ **Minimum Temperature Departures (as on 25-10-2024):** 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 isolated places over Uttarakhand, Bihar, Jharkhand, West Madhya Pradesh, Madhya Maharashtra, Sub-Himalayan West Bengal & Sikkim; **above normal (1.6°C to 3.0°C)** at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Rajasthan, Gujarat state, Odisha, Marathwada; at many places over Konkan & Goa, East Madhya Pradesh, Chhattisgarh; at isolated places over Arunachal Pradesh, Assam & Meghalaya, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka. Yesterday, **the lowest minimum temperature** of 16.0°C was reported at **Amritsar (Punjab), Hissar (Haryana) & Ridge (Delhi)** over the plains of the country. (Fig.4)
- ❖ **Maximum Temperature Departures (as on 25-10-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh; , **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Punjab, Uttarakhand; **above normal (1.6°C to 3.0°C)** at many places over West Rajasthan, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Coastal Andhra Pradesh & Yanam; at isolated places over West Madhya Pradesh, East Rajasthan, Telangana. These were **markedly below normal (-5.1°C or less)** at many places over Gangetic West Bengal; at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Bihar, Jharkhand, Assam & Meghalaya, Kerala & Mahe, Odisha; **below normal (-3.0°C to -1.6°C)** at isolated places over Chhattisgarh, Telangana, East Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura. Yesterday, **the highest maximum temperature** of 38.9°C was reported at **Barmer (West Rajasthan)** over the country. (Fig. 2)

Meteorological Analysis (Based on 0530 hours IST)

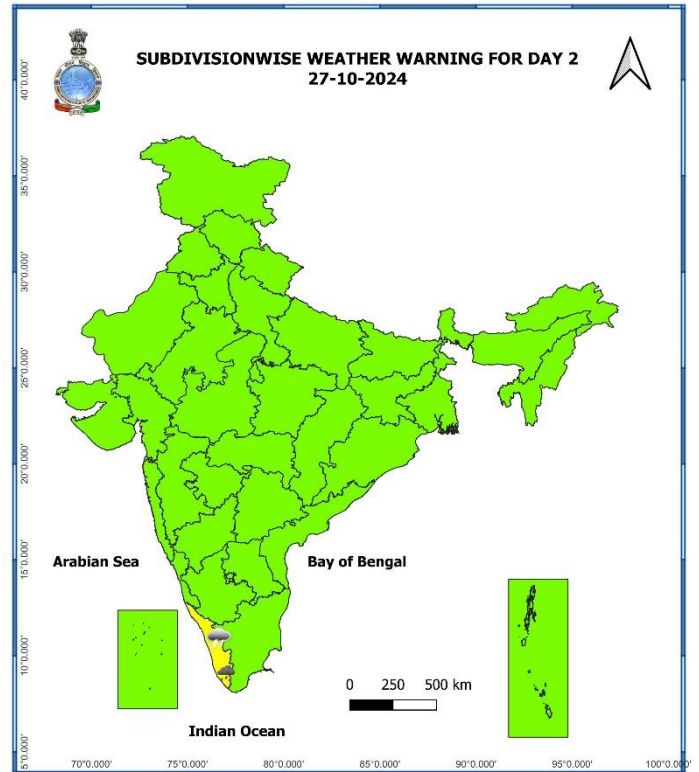
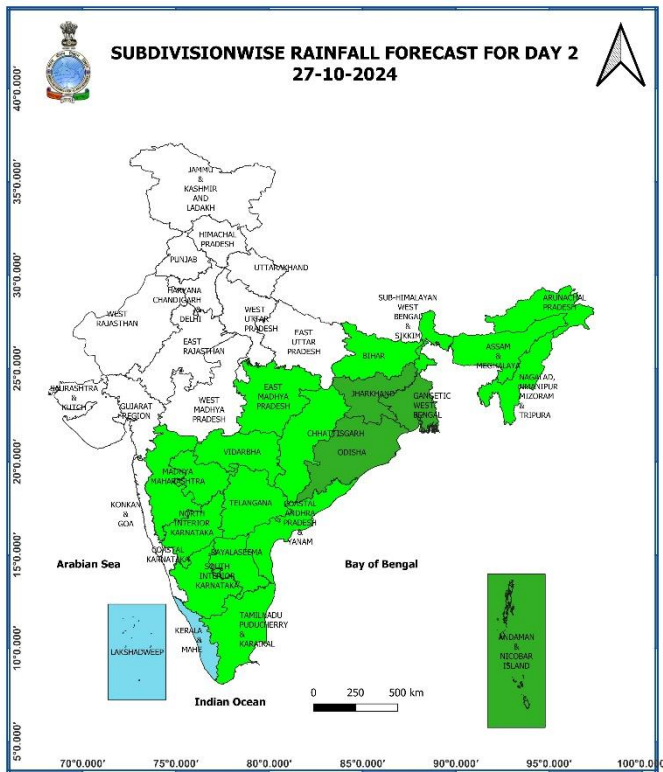
- ❖ The **depression (remnant of severe cyclonic storm “DANA”)** over north Odisha moved slightly westwards during past 6 hours and weakened into a **well marked low pressure area** over the same region. It is likely to weaken further and become insignificant during next 12 hours.
- ❖ The **upper air cyclonic circulation** over Southeast & adjoining Southwest Arabian Sea extending upto 3.1 km above mean sea level persists.
- ❖ The **cyclonic circulation** over Southeast Arabian Sea off south Kerala coast extending upto 1.5 km above mean sea level persists.
- ❖ The **cyclonic circulation** over northeast Assam at 3.1 km above mean sea level persists.
- ❖ The **Western Disturbance** as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 50°E to the north of Lat. 28°N persists.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 02nd November, 2024)



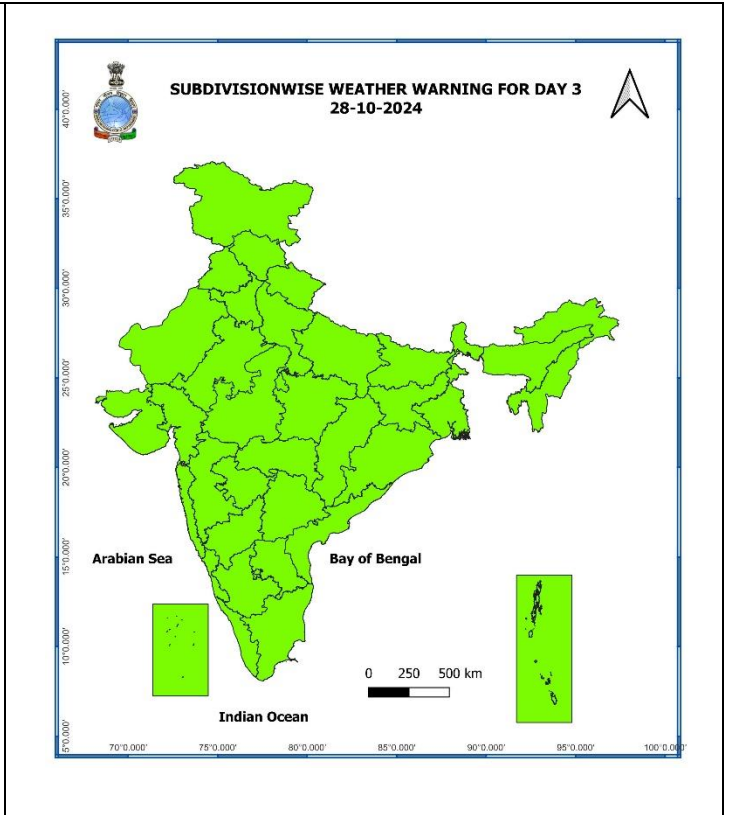
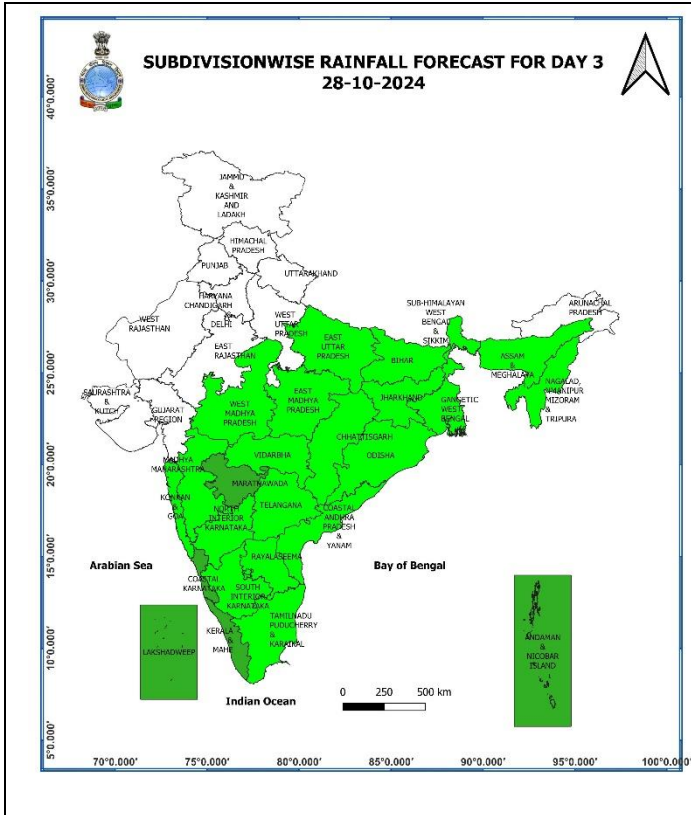
26 October (Day 1):

- ❖ **Heavy rainfall ($\geq 7\text{cm}$)** very likely at isolated places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail along and off Kerala coast and over Lakshadweep area. Fishermen are advised not to venture into these areas.



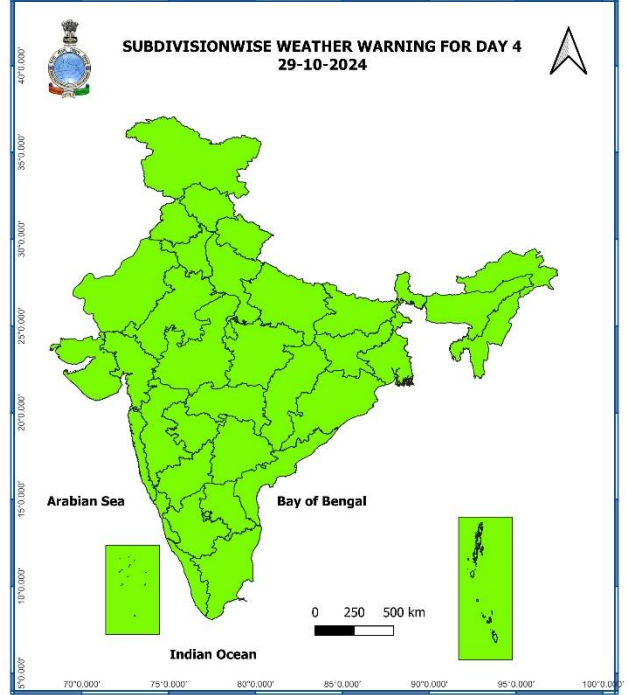
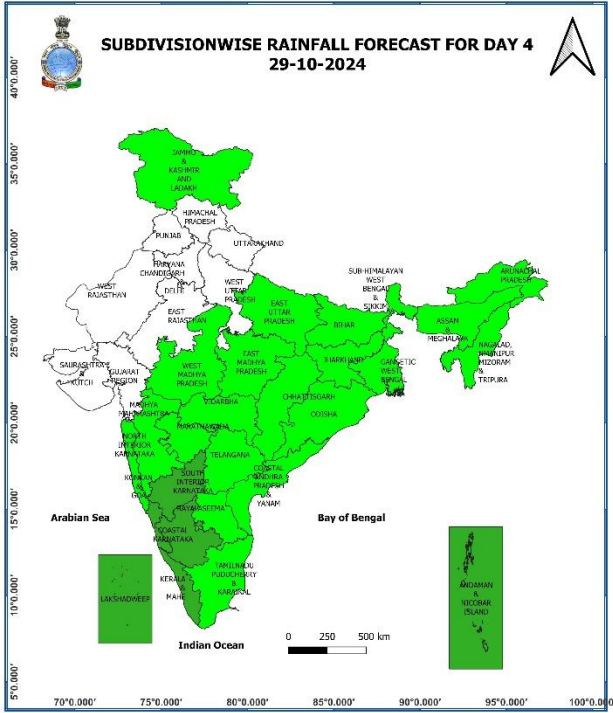
27 October (Day 2):

- ❖ **Heavy rainfall ($\geq 7\text{cm}$)** very likely at isolated places over Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Kerala & Mahe.



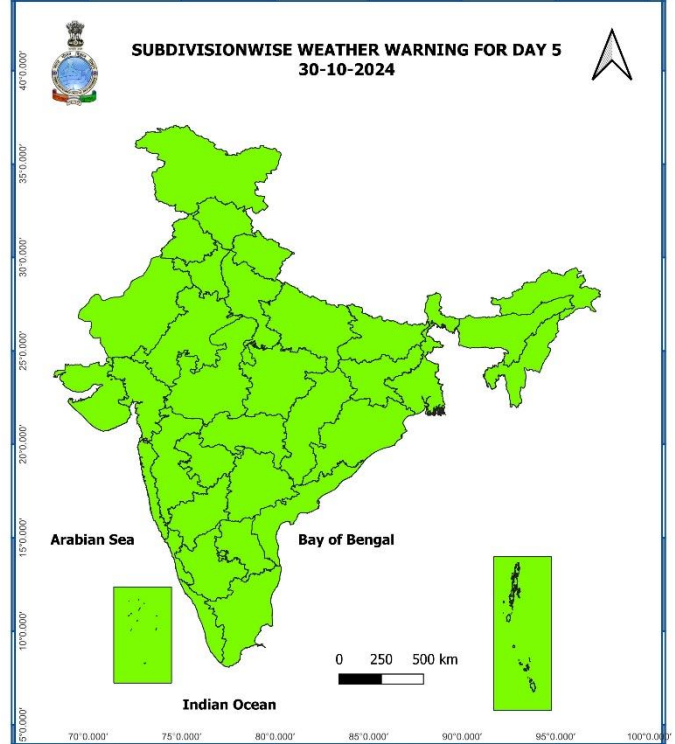
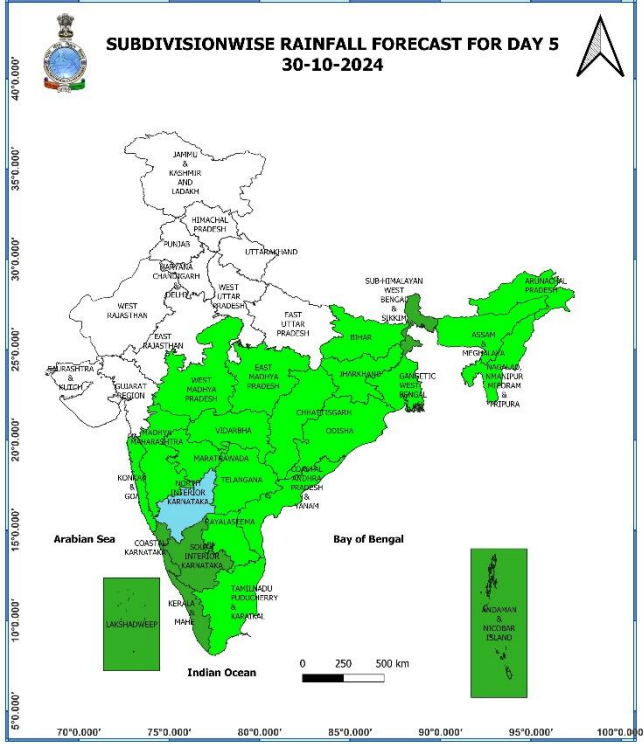
28 October (Day 3):

❖ **No weather warning.**



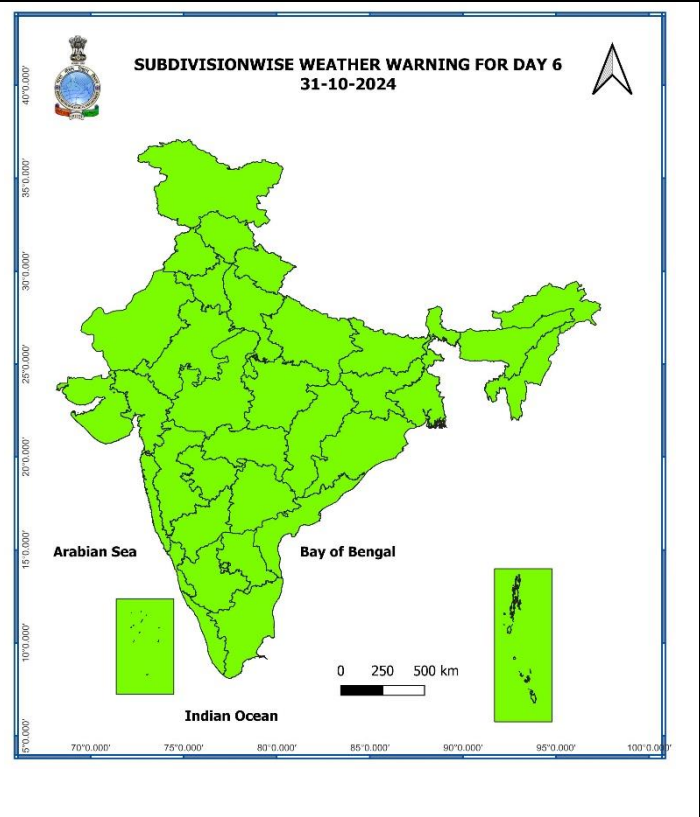
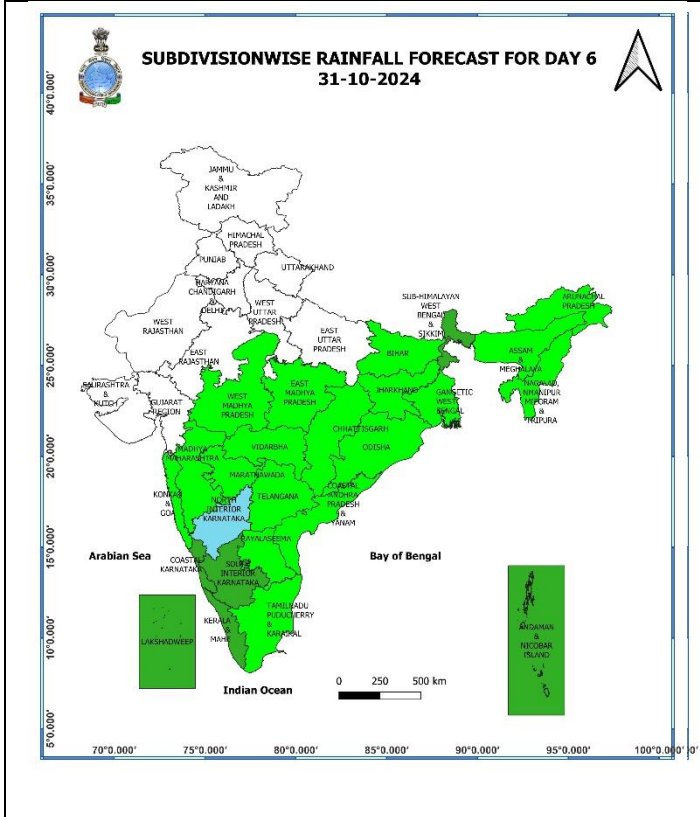
29 October (Day 4):

❖ **No weather warning.**



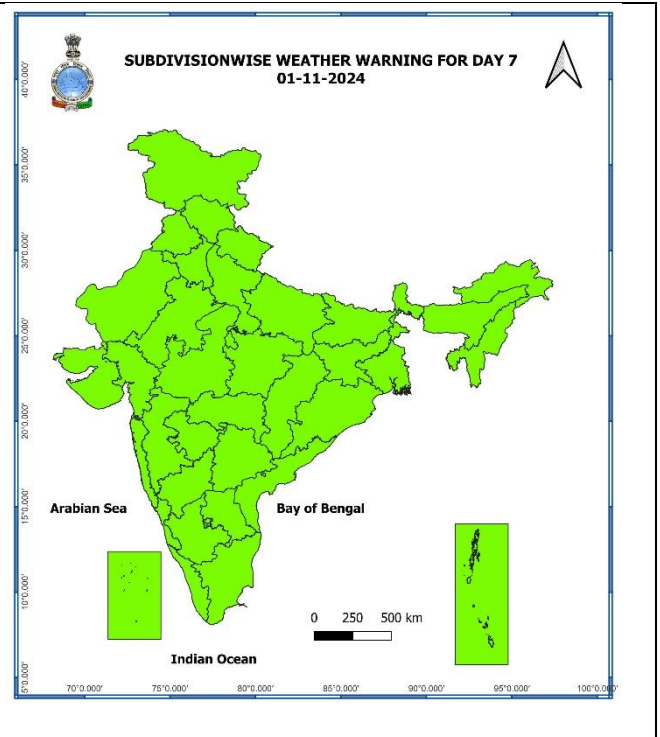
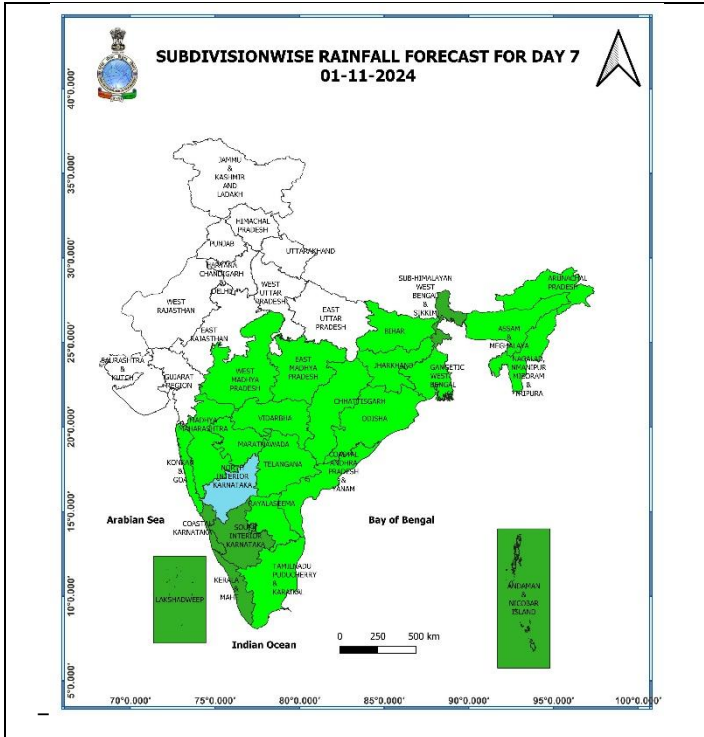
30 October (Day 5):

❖ **No weather warning.**



31 October (Day 6):

❖ **No weather warning.**



01 November (Day 7):

❖ **No weather warning.**

Weather Outlook for subsequent 3 days (During 02nd November – 04th 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)

Agromet advisories for Heavy Rainfall likely over various parts of the country

- ✓ Drain out excess water from rice nurseries and fields of rice, maize, pepper and newly planted turmeric. Undertake detrashing and propping of more than five-months-old sugarcane to avoid lodging. Provide support to banana plantations.
- ✓ In **Kerala**, drain out excess water from rice, banana, coconut and vegetable fields. Undertake propping in banana plantations and strengthen the vegetable pandals.
- ✓ Keep the harvested produce at safer places.
- ✓ Provide mechanical support to horticultural crops & staking to vegetables.

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

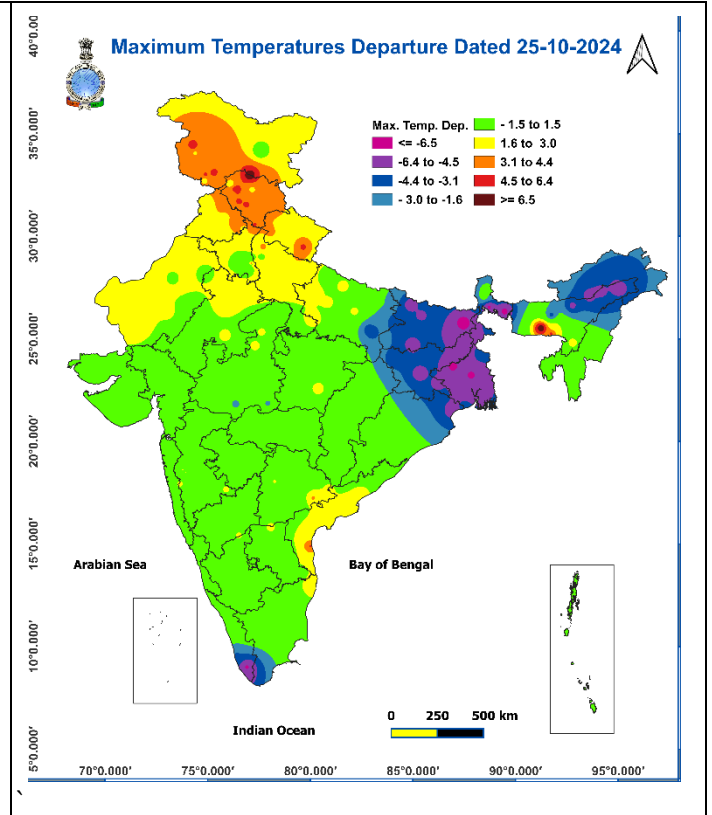
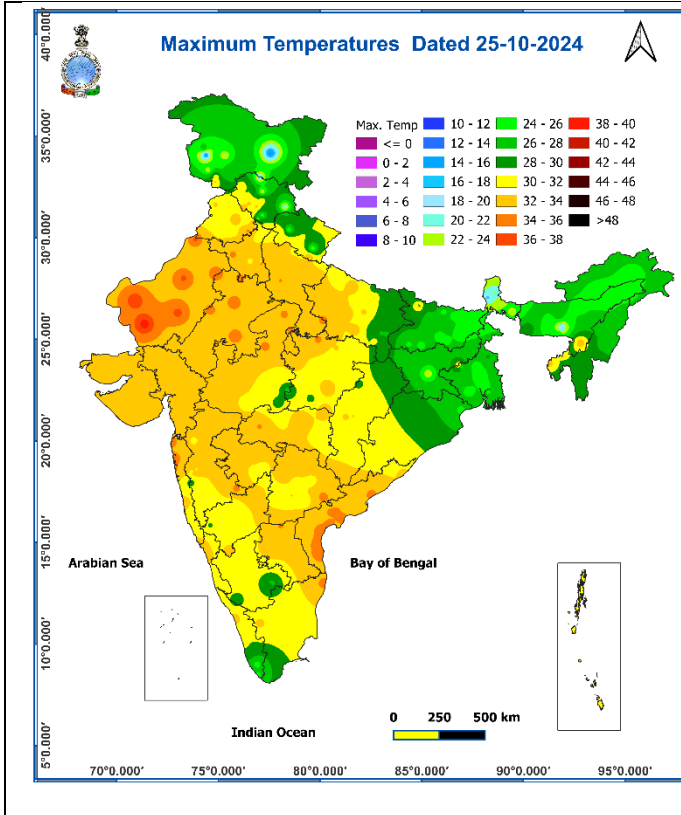


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

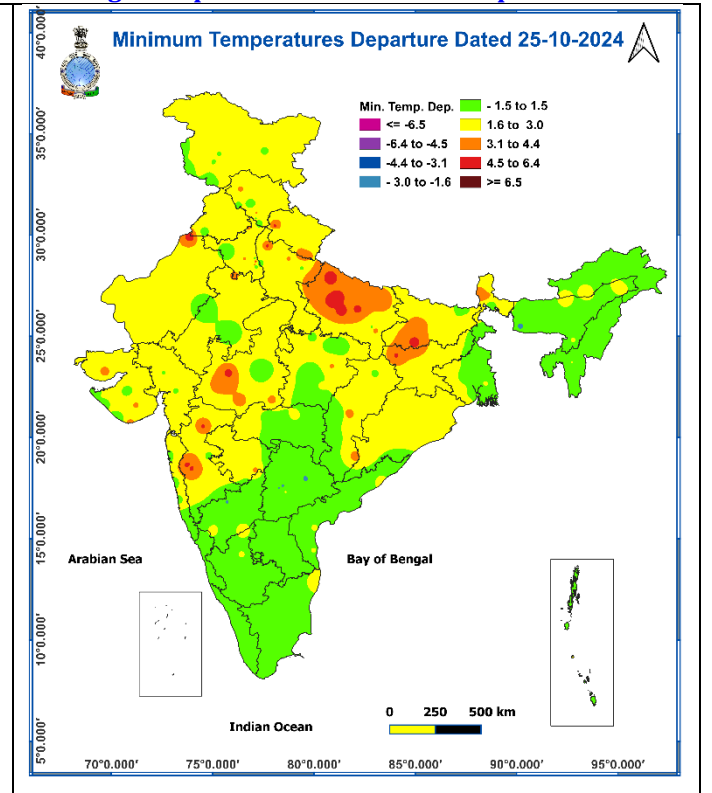
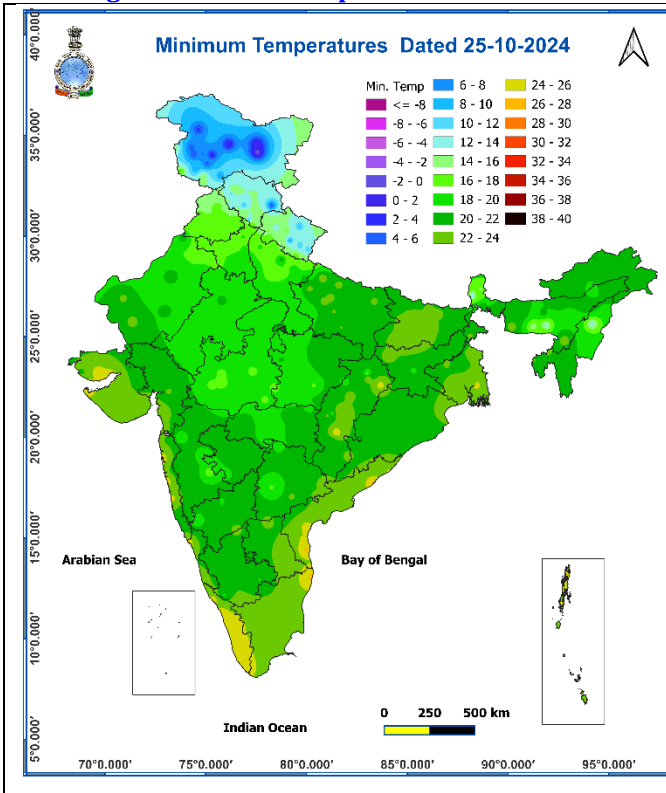
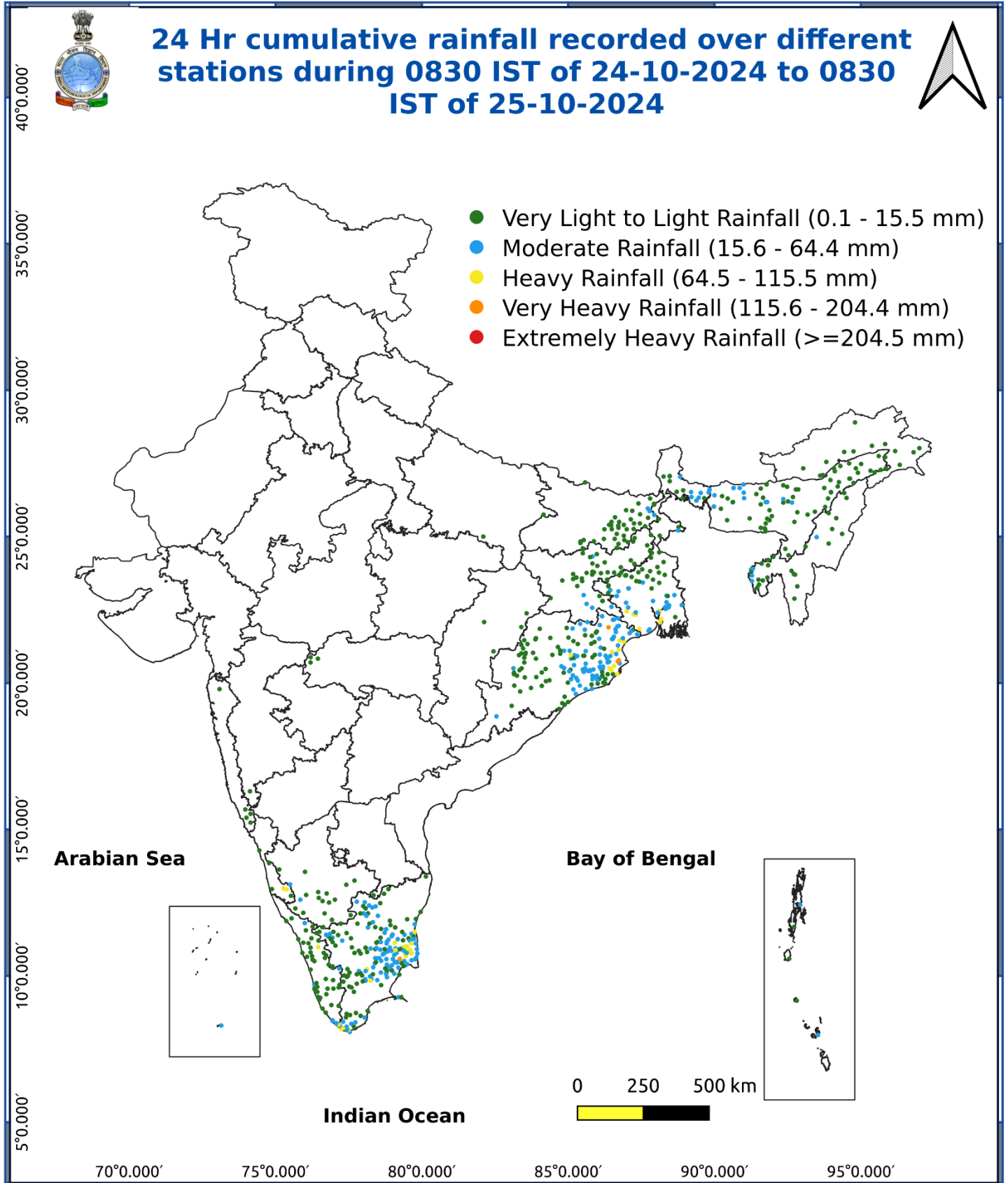


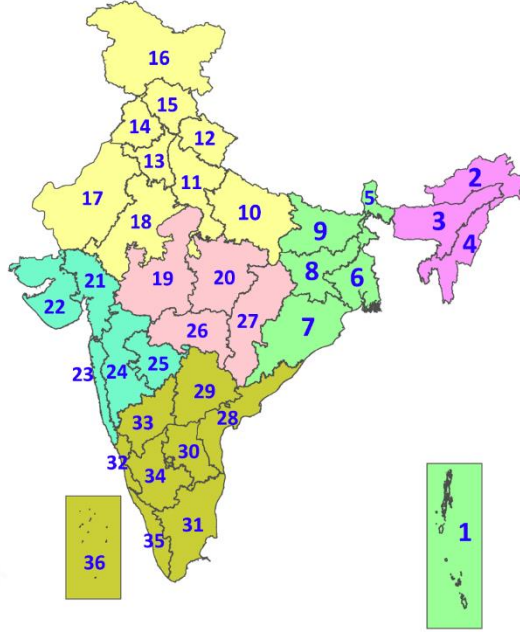
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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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

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