

Saturday, October 26, 2024
Time of Issue: 1315 hours IST
(MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems:

- ❖ The **well marked low pressure area** over north Odisha persists. It is likely to weaken further and become insignificant during next 12 hours.
- ❖ A trough runs from Lakshadweep area to north Tamil Nadu coast in middle tropospheric levels.

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 today and reduction thereafter.
- ✓ **Isolated heavy rainfall** also very likely over extreme south Tamil Nadu, Kerala & Mahe, Lakshadweep on 26th October.

No significant weather likely over rest parts of the country.

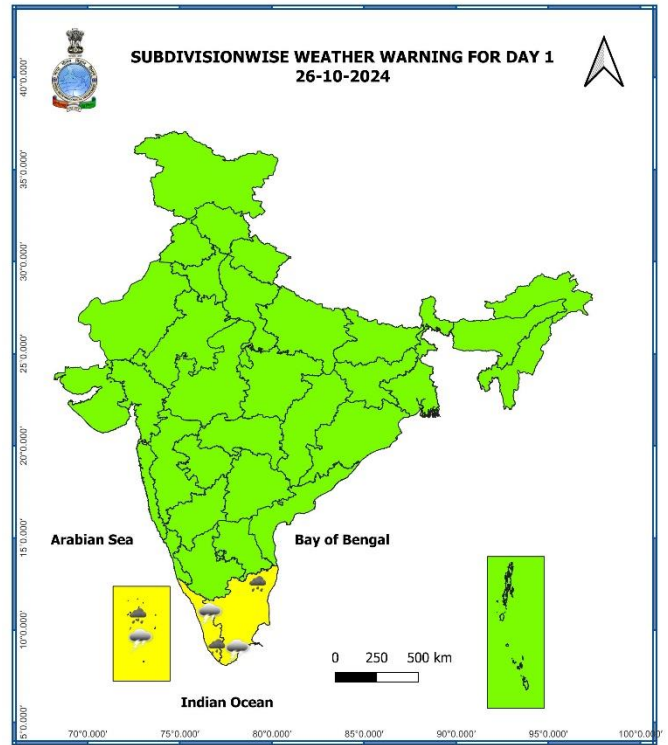
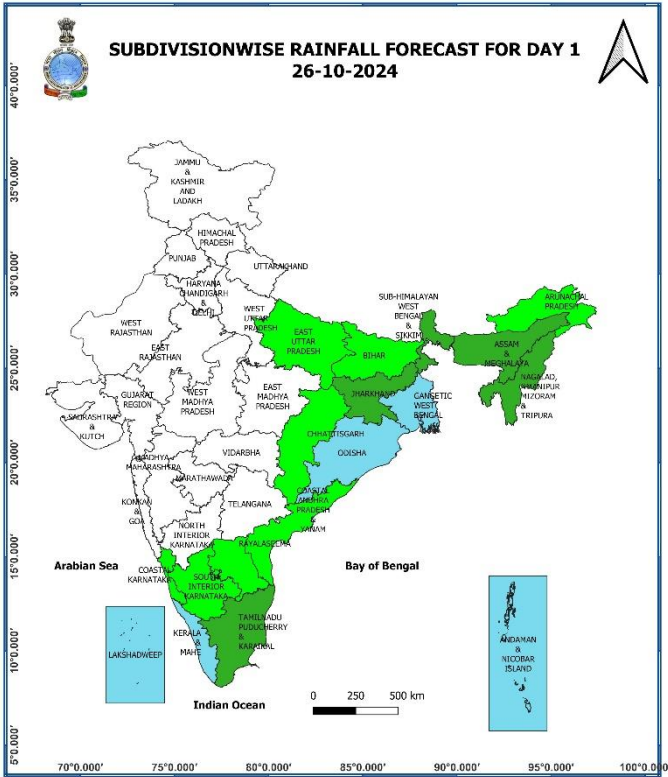
Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Odisha, Gangetic West Bengal; **at many places** over Jharkhand, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Kerala & Mahe, Lakshadweep; **at few places** over Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal; **at isolated places** over Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Coastal Karnataka, South Interior Karnataka, Bihar, Vidarbha, Chhattisgarh.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy rainfall with extremely heavy rainfall** at isolated places over Odisha; **Heavy to very heavy rainfall** at isolated places over Gangetic West Bengal; **Heavy rainfall** at isolated places over Tamil Nadu, Kerala & Mahe, Jharkhand.
- ❖ **Significant amount of rainfall** (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): **Odisha:** Oupada (dist Balasore) 24, Dhamnagar (dist Bhadrak) 21, Khaira (dist Balasore) 21, Bhandaripokhari (dist Bhadrak) 21, Nawana (dist Mayurbhanj) 19, Bonth (dist Bhadrak) 19, Chandbali (dist Bhadrak) 17, Bhadrak (dist Bhadrak) 16, Rajkanika (dist Kendrapara) 15, Bari (dist Jajpur) 15, Jajpur Pto (dist Jajpur) 14, Jajpur (dist Jajpur) 14, Udala (dist Mayurbhanj) 14, Nilgiri (dist Balasore) 14, Tihidi (dist Bhadrak) 14, Akhuapada (dist Bhadrak) 13, Aul (dist Kendrapara) 12, Binjharpur (dist Jajpur) 11, Remuna (dist Balasore) 11, Kaptipada (dist Mayurbhanj) 10, Soro (dist Balasore) 10, G B Nagar (dist Mayurbhanj) 10, Ghasipura (dist Keonjhar) 9, Basudevpur (dist Bhadrak) 9, Balasore (dist Balasore) 9, Nh5 Gobindpur (dist Balasore) 9, Chandanpur (dist Mayurbhanj) 9, Betanati (dist Mayurbhanj) 8, Balimundali (dist Mayurbhanj) 8, Kusumi (dist Mayurbhanj) 8, Derabis (dist Kendrapara) 8, Bahanga (dist Balasore) 8, Jaipur (dist Balasore) 8, Chandikhola (dist Jajpur) 8, Hatadihi (dist Keonjhar) 7, Samakhunta (dist Mayurbhanj) 7, Anandpur (dist Keonjhar) 7, Nischintakoili (dist Cuttack) 7, Pattamundai (dist Kendrapara) 7, Kendrapara (dist Kendrapara) 7, Kendrapada Pto (dist Kendrapara) 7, **Gangetic West Bengal:** Barrackpur (Iaf) (dist North 24 Parganas) 17, Harinkhola (dist Hooghly) 15, Alipore (dist Kolkata) 12, Durgachack (dist East Midnapore) 12, Diamond Harbour (dist South 24 Parganas) 11, Kalyani Smo (dist Nadia) 11, Amtala (dist Murshidabad) 11, Uluberia (dist Howrah) 11, Midnapore (cwc) (dist West Midnapore) 11, Mohanpur (dist West Midnapore) 11, Midnapore (dist West Midnapore) 11, Panagarh (Iaf) (dist Paschim Bardhaman) 11, Burdwan (pto) (dist Purba Bardhaman) 10, Kalaikunda (Iaf) (dist West Midnapore) 10, Dum Dum (dist North 24 Parganas) 10, Mo Saltlake (dist North 24 Parganas) 10, Mankar (dist Purba Bardhaman) 9, Gheropara (dist Birbhum) 9, Lalgargh (dist Jhargram) 9, Manteswar (dist Purba Bardhaman) 9, Debagram (dist Nadia) 8, Amfu Kharagpur (dist West Midnapore) 8, Canning (dist South 24 Parganas) 8, Sri Niketan (dist Birbhum) 8, Labpur (dist Birbhum) 7, Bankura (cwc) (dist Bankura) 7, Suri (cwc) (dist Birbhum) 7, Suri (pto) (dist Birbhum) 7, Mangalkote (dist Purba Bardhaman) 7, **Tamil Nadu:** Namakkal AWS (dist Namakkal), Chittampatti (dist Madurai) 11 each, Colachel (dist Kanyakumari), Idayapatti (dist Madurai), Usilampatti (dist Madurai) 9 each, Sholavandan (dist Madurai), Kuppanampatti (dist Madurai), Bhoonthapandy (dist Kanyakumari) 8 each, Kallandri (dist Madurai), Tallakulam (dist Madurai), Uppar Dam (dist Tiruppur), Dindigul (dist Dindigul), Nilakottai (dist Dindigul), Adayamadai (dist Kanyakumari), Madurai city (dist Madurai), Madurai North (dist Madurai), Periyapatti (dist Madurai) 7 each; **Jharkhand:** Maheshpur (dist Pakur) 8, Pakuria (dist Pakur) 7; **Kerala & Mahe:** Kanjirapuzha (dist Palakkad) 7, Airport Chakka (dist Thiruvananthapuram) 7.
- ❖ **Minimum Temperature Departures (as on 26-10-2024):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at a few places over East Uttar Pradesh; at isolated places over Uttarakhand, West Uttar Pradesh and West Rajasthan; **above normal (1.6°C to 3.0°C)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Jharkhand, Odisha, East Madhya Pradesh, Madhya Maharashtra, Saurashtra & Kutch, East Rajasthan; at a few places over Haryana-Chandigarh-Delhi, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Vidarbha, Marathwada, West Madhya Pradesh, Gujarat Region and at isolated places over Arunachal Pradesh, Gangetic West Bengal and Konkan & Goa. Today, **the lowest minimum temperature of 15.2°C** is reported at **Bhopal (West Madhya Pradesh) & 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 0830 hours IST)

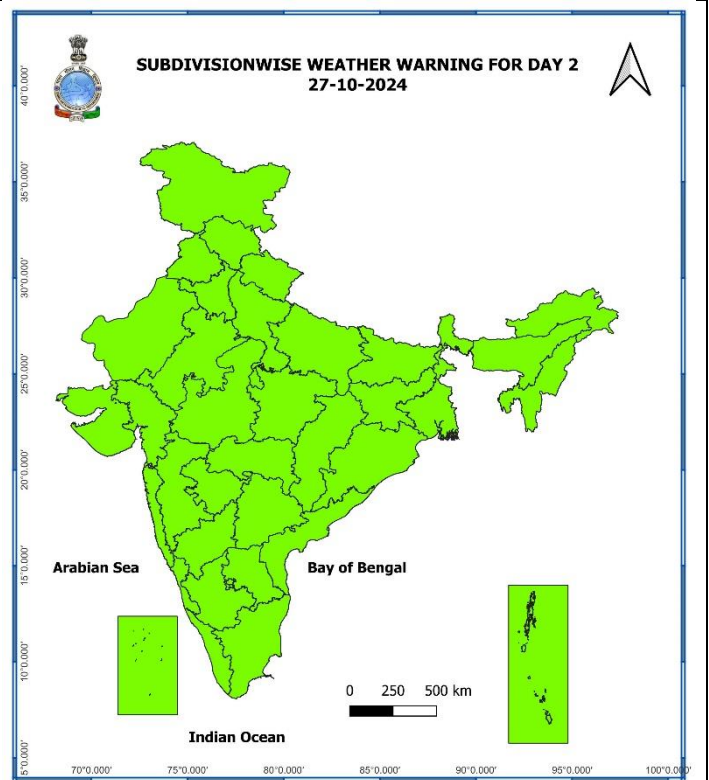
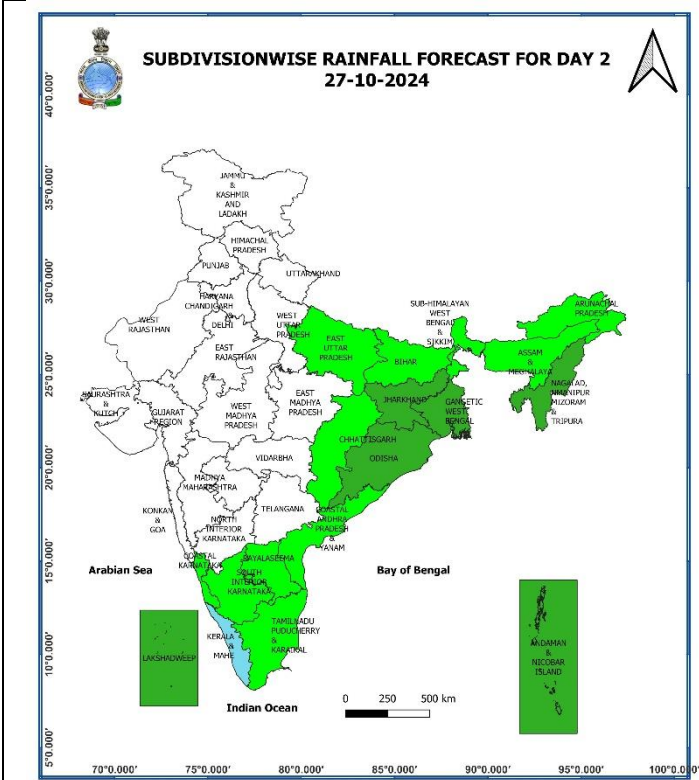
- ❖ The **well marked low pressure area** over north Odisha persists. It is likely to weaken further and become insignificant during next 12 hours.
- ❖ The **upper air cyclonic circulation** over Southeast & adjoining Southwest Arabian Sea now lies over Southwest Arabian Sea and extends upto 3.1 km above mean sea level.
- ❖ A trough runs from Lakshadweep area to north Tamil Nadu coast between 4.5 & 5.8 km above mean sea level.
- ❖ The **cyclonic circulation** over northeast Assam now lies over central Assam & neighbourhood at 1.5 km above mean sea level.
- ❖ The **cyclonic circulation** over Southeast Arabian Sea off south Kerala coast extending upto 1.5 km above mean sea level has become less marked.
- ❖ 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 has become less marked.

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



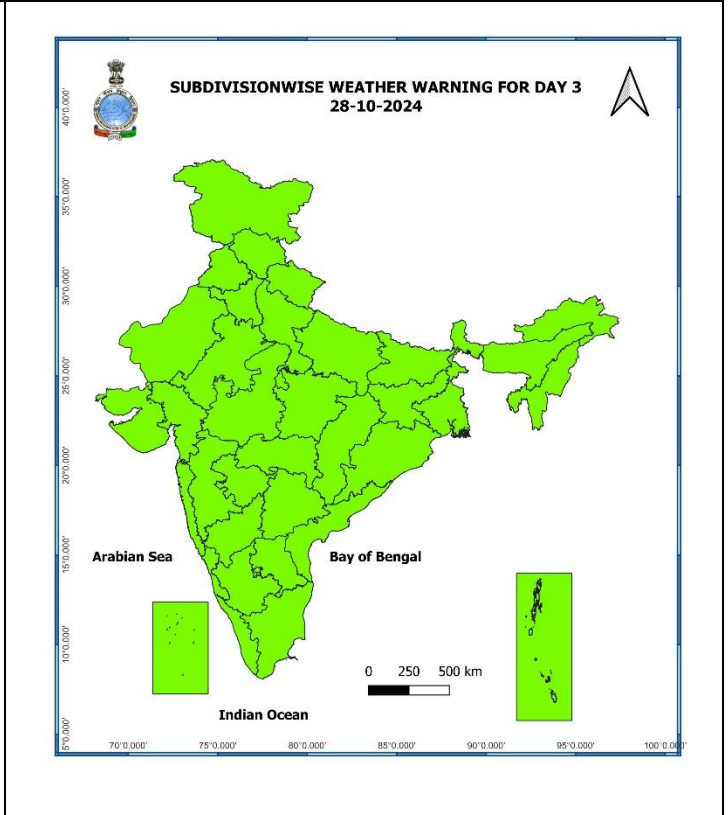
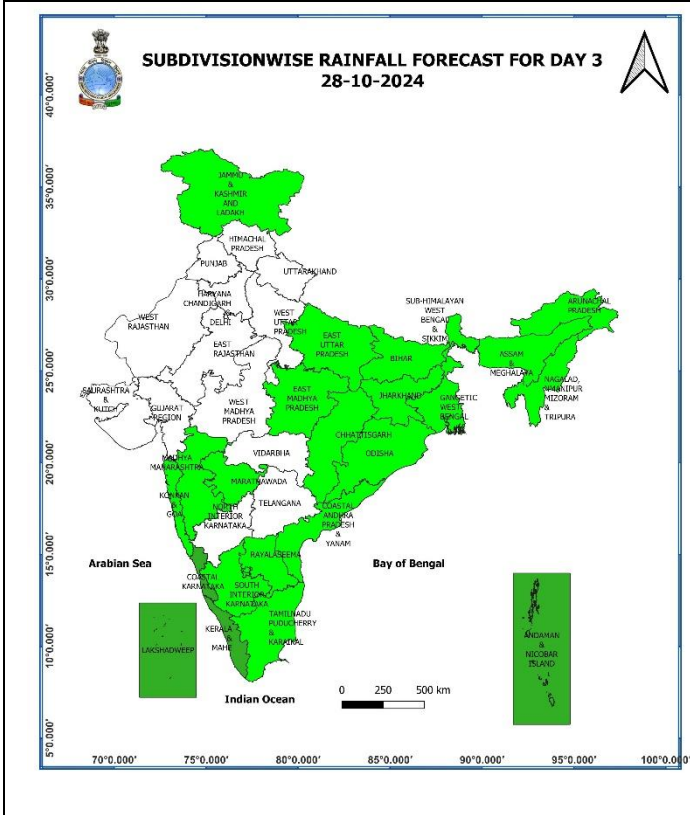
26 October (Day 1):

- ❖ **Heavy rainfall (≥7cm)** very likely at isolated places over Kerala & Mahe, south Tamil Nadu, Lakshadweep.
- ❖ **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, Maldives areas. Fishermen are advised not to venture into these areas.



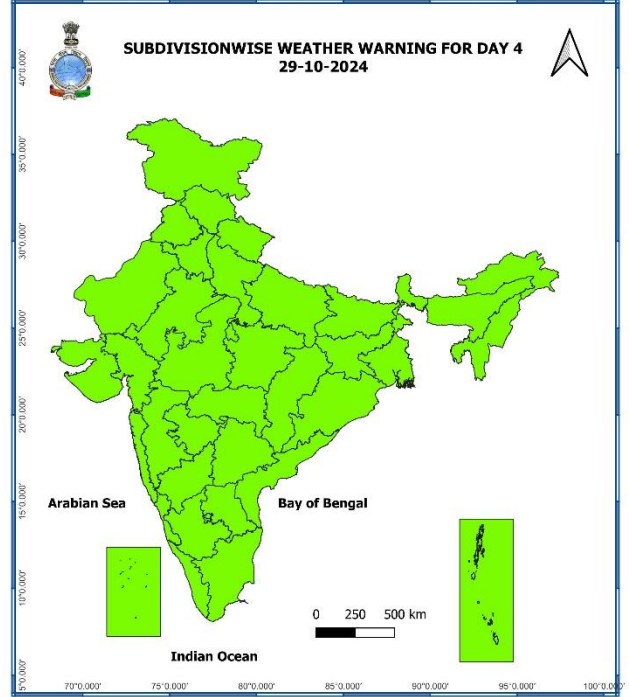
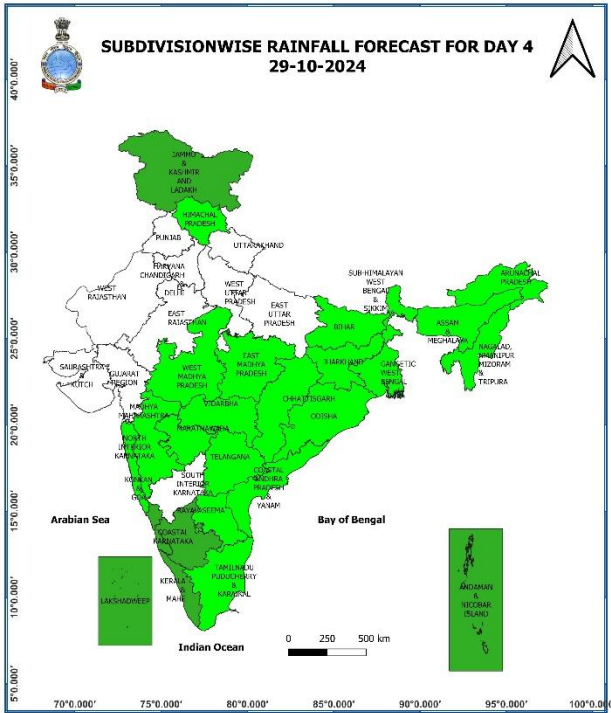
27 October (Day 2):

❖ **No weather warning.**



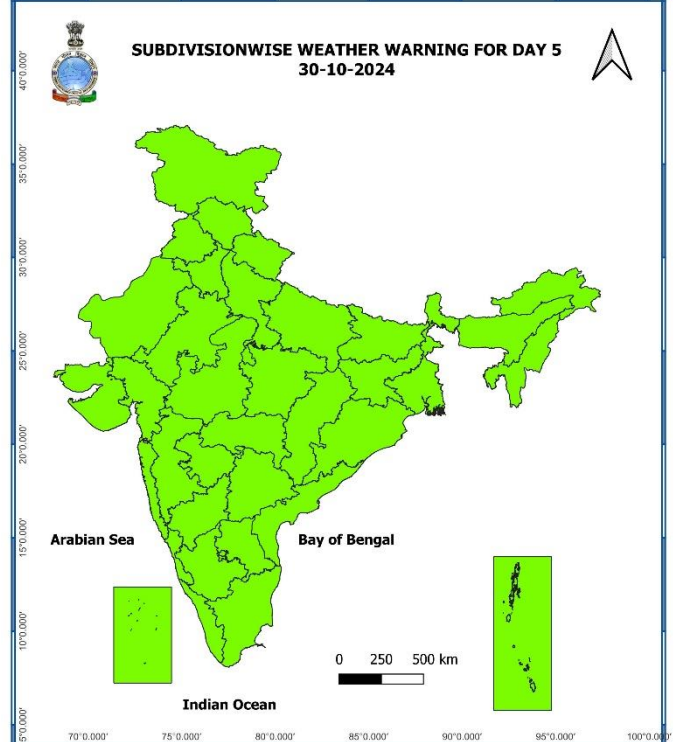
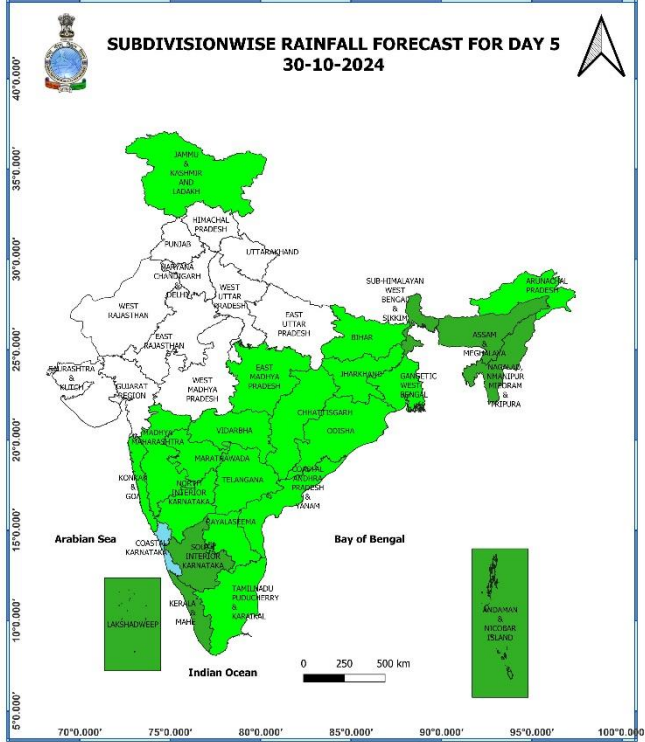
28 October (Day 3):

❖ **No weather warning.**



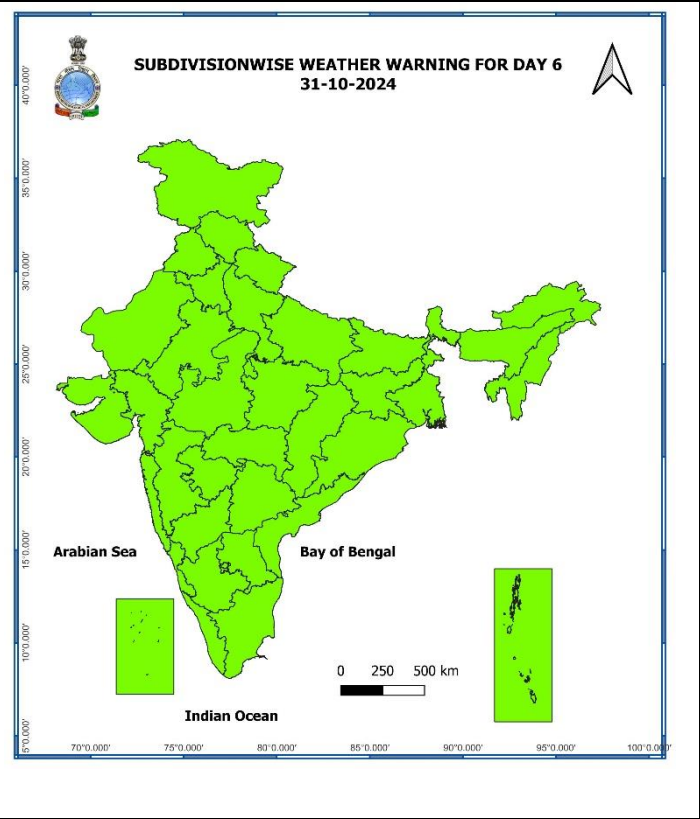
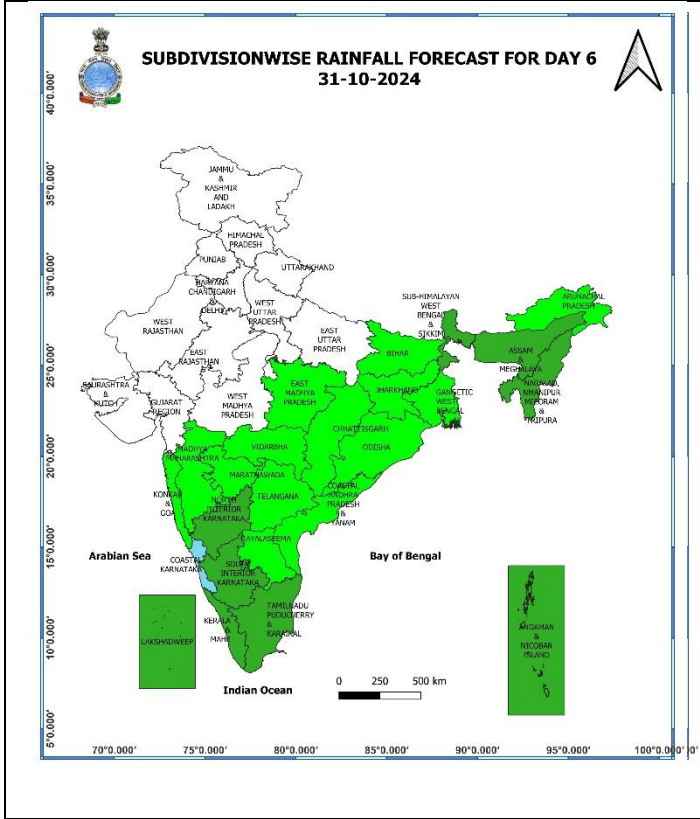
29 October (Day 4):

❖ **No weather warning.**



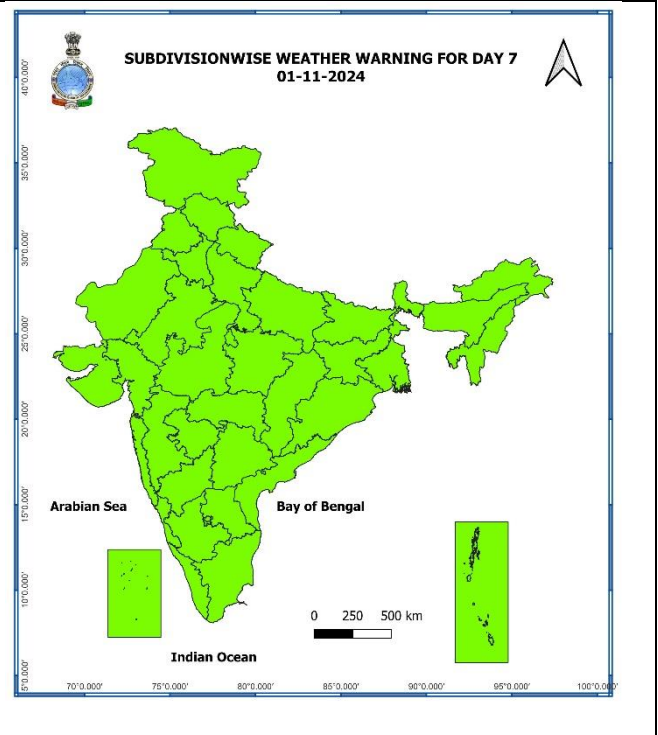
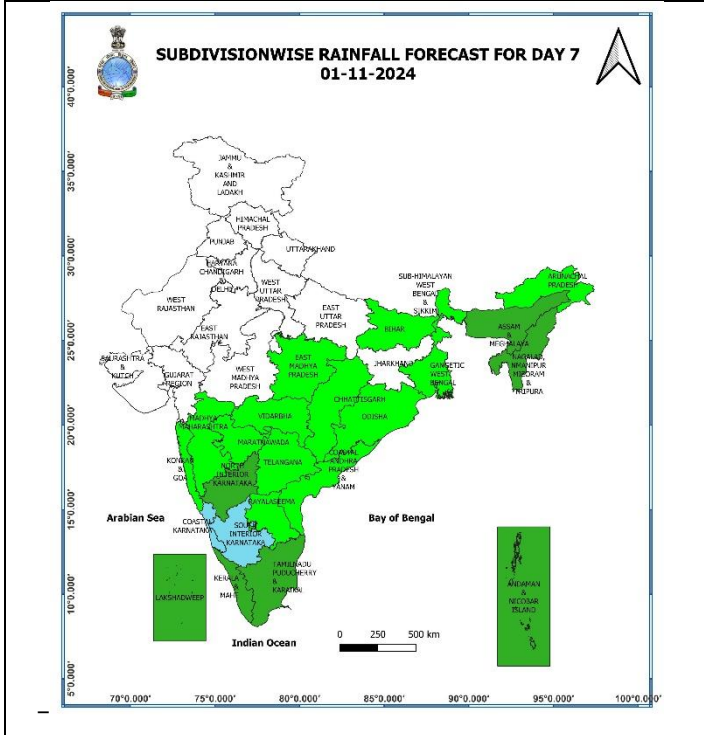
30 October (Day 5):

❖ **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.

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

- ✓ In **Tamil Nadu**, 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 and staking to vegetables.

Post Cyclone Agromet Advisories for the districts of North Odisha and Gangetic West Bengal

- ✓ In **Odisha**, clean the drainage channels to drain out excess water from rice, maize, black gram, green gram, groundnut, sorghum & vegetable fields and fruit orchards. Collect the fallen fruits and vegetables from the fields and keep them at safe and dry places. Repair and strengthen the trellis of vine vegetables.
- ✓ In **Gangetic West Bengal**, drain out excess water from *Aman* paddy, groundnut, pulses & vegetable fields and betel vine gardens. In early-sown *Aman* paddy, tie a few plants together to help them stand upright.
- ✓ Carry out propping of sugarcane and banana to keep them erect.
- ✓ Provide mechanical support to fruit plants and staking in vegetables to minimize the damage.

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

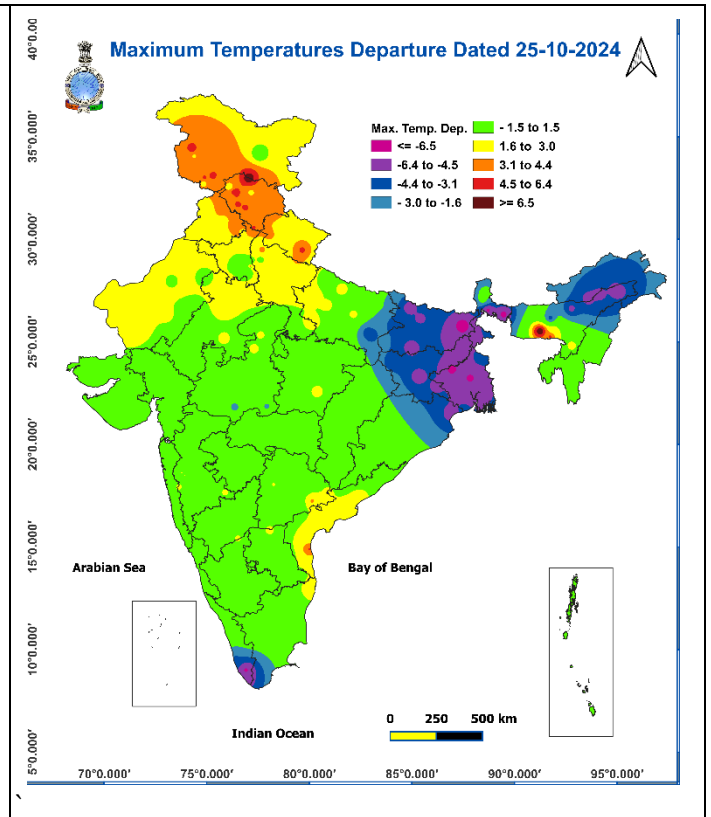
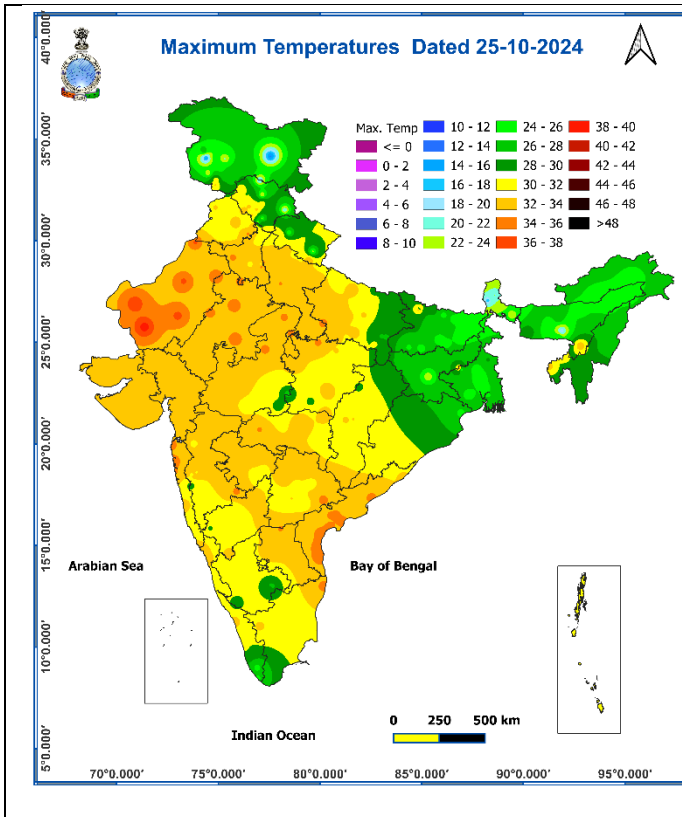


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

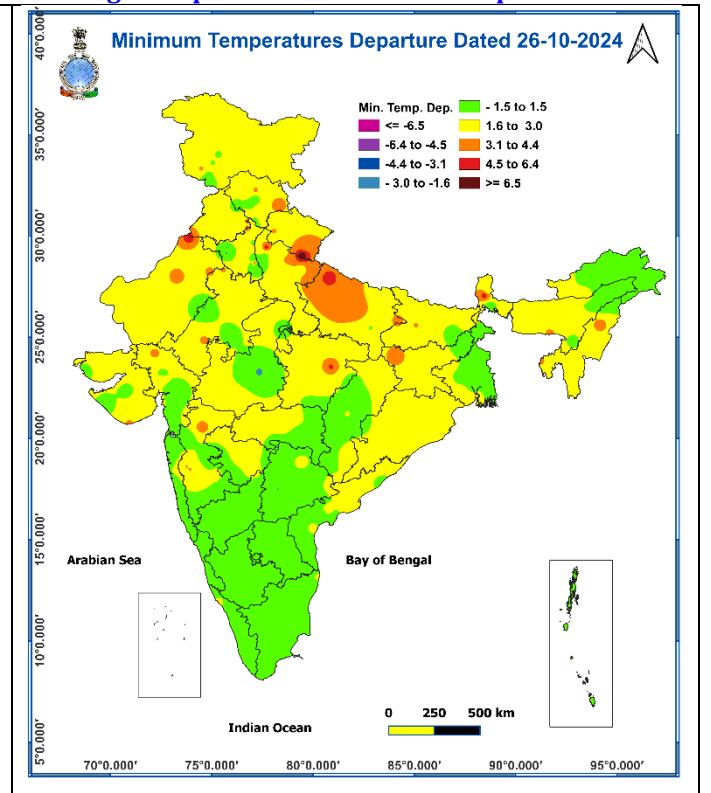
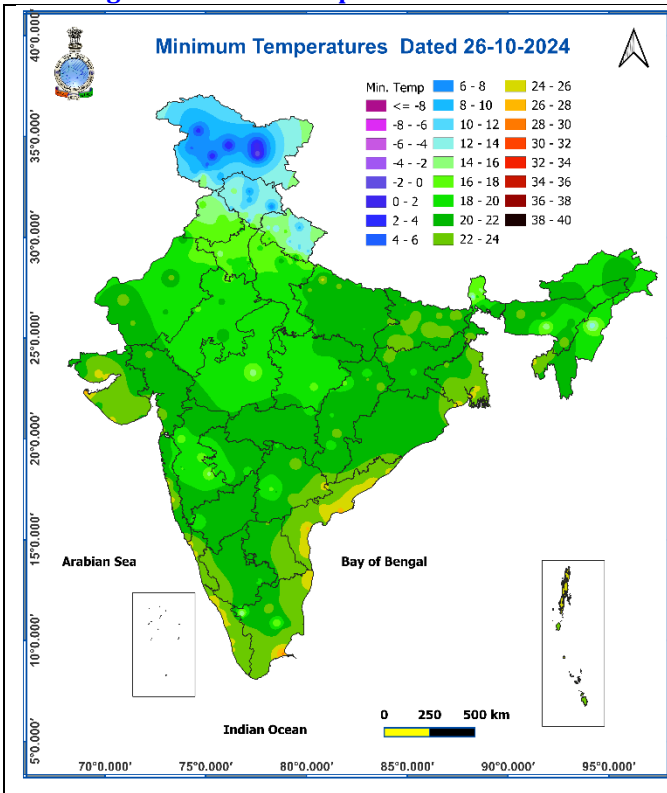
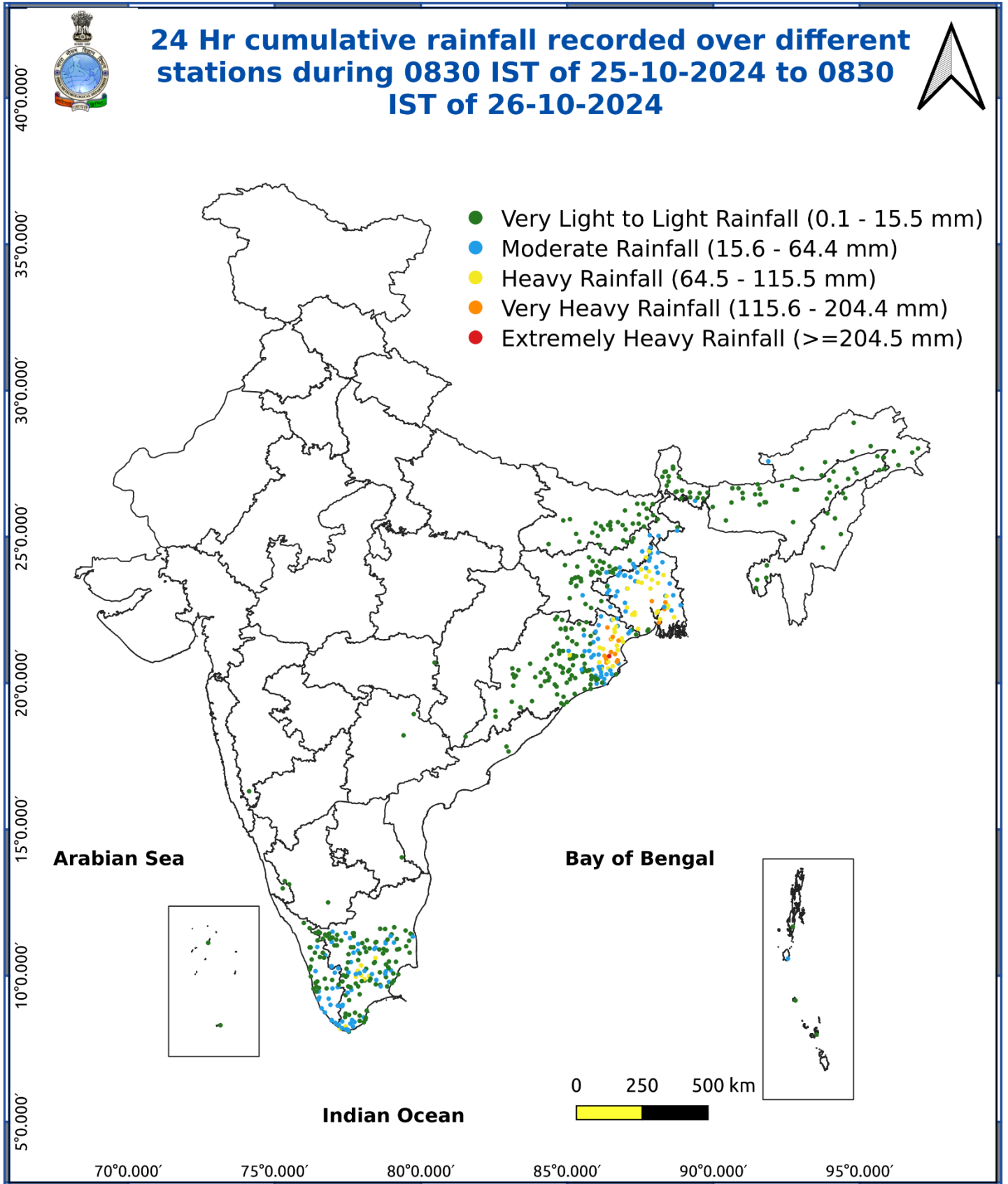


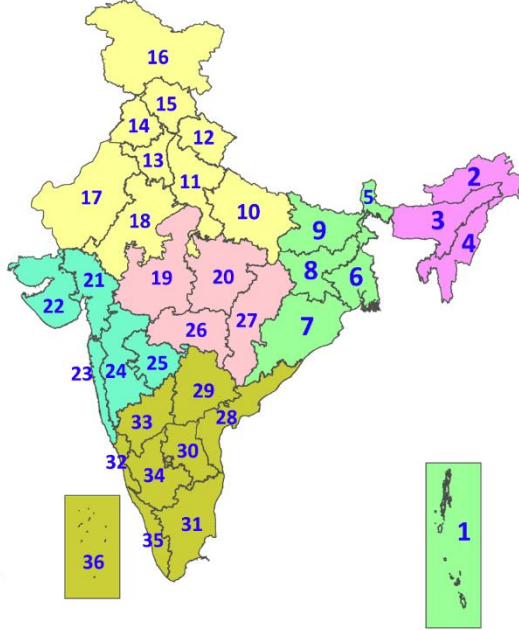
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



* 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)

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 *

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 Strom: Wind speed > 220 kmph (> 119 knots)