

Tuesday, November 26, 2024
Time of Issue: 0830 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems:

- ❖ The Depression over Southwest Bay of Bengal and adjoining East Equatorial Indian Ocean moved north-northwestwards with a speed of 10 kmph during past 6 hours and lay centred at 0530 hours IST of today, the 26th November 2024 over the southwest Bay of Bengal near latitude 6.0°N and longitude 82.9°E, about 340 km south-southeast of Trincomalee, 630 km south-southeast of Nagapattinam, 750 km south-southeast of Puducherry and 830 km south-southeast of Chennai. It is likely to move nearly north-northwestwards and intensify into a deep depression during next 12 hours. Thereafter, it is likely to continue to move north-northwestwards towards Sri Lanka - Tamil Nadu coasts during subsequent 2 days. A cyclonic circulation lies over sub-Himalayan west Bengal in lower tropospheric levels.
- ❖ A fresh Western disturbance is likely to affect Western Himalayan Region from 29th November.

Forecast & Warnings (upto 7 days):

- ✓ Light to moderate rainfall at a few places accompanied with isolated thunderstorm & lightning very likely over coastal Tamil Nadu & Puducherry during 26th-29th, Kerala & Mahe on 26th & 27th, south Coastal Andhra Pradesh & Yanam and Rayalaseema during 26th-29th November.
- ✓ Isolated **heavy to very heavy rainfall** at a few places **with extremely heavy falls** at isolated places very likely over coastal Tamil Nadu & Puducherry on 26th & 27th, **heavy to very heavy rainfall** at isolated places on 28th and **heavy rainfall** at Isolated places on 29th & 30th November.
- ✓ **Heavy rainfall** at isolated places very likely over Kerala & Mahe during 26th-28th, south Coastal Andhra Pradesh & Yanam during 26th-29th November.
- ✓ Light to moderate rainfall at most places likely over Nagaland, Manipur, Mizoram & Tripura on 28th & 29th & with isolated heavy rainfall on 28th November.
- ✓ **Dense fog conditions** very likely to prevail during early morning hours in isolated pockets of Himachal Pradesh during 26th-30th, Punjab & Haryana-Chandigarh during 28th -30th and Uttar Pradesh during 28th November-01st December.

ii. Temperature conditions and Forecast:

Temperature Conditions during past 24 hours till 0830 hours IST of yesterday

No significant change in minimum temperature observed over most parts of the country during past 24 hours. Minimum temperatures were **appreciably above normal (3°C to 5°C)** at isolated places over West Rajasthan, Haryana-Chandigarh-Delhi and Bihar; **above normal (1°C to 3°C)** at isolated places over Uttar Pradesh, East Madhya Pradesh, Gujarat Region and Tamil Nadu, Puducherry & Karaikal. These are **appreciably below normal (3°C to 5°C)** at isolated places over West Madhya Pradesh, Gangetic West Bengal and Telangana; **below normal (1°C to 3°C)** at many places over Coastal Karnataka; at a few places over Konkan & Goa, Madhya Maharashtra and Chhattisgarh; at isolated places over East Rajasthan, Marathwada, Vidarbha, Saurashtra & Kutch and near normal over rest parts of the country. Yesterday, **the lowest minimum temperature of 10.2°C** was reported at **Sarsawa IAF (West Uttar Pradesh)** over the plains of the country.

Forecast of temperature:

- ❖ Gradual fall in minimum temperatures by 2-3°C very likely over northwest India during next 5 days (except over Rajasthan).
- ❖ Gradual fall in minimum temperatures by 2-3°C very likely over Maharashtra during next 4 days.
- ❖ No significant change in minimum temperatures over rest parts of the country during next 5 days.

iii. Weather forecast over Delhi/NCR during 26th Nov. to 28th Nov. 2024

Past Weather:

There has been no significance change in maximum temperature and a rise upto 2°C in minimum temperature over Delhi/NCR during past 24hr. The Maximum and Minimum temperature over Delhi is in the range of 27 to 29°C and 11 to 14°C respectively. The maximum temperature was above normal by 02 to 03°C and the minimum temperature was above normal by 01 to 03°C most places over the region. Mainly smog/ shallow fog condition with predominant surface wind from west direction with wind speed reaching 06 to 12 kmph prevailed during daytime and calm wind during night time on 24.11.2024. Shallow fog reported at Palam airport during early morning today. Palam airport recorded lowest visibility 800 m during 0900 hours to 1130 hours IST. Shallow fog reported at Safdarjung airport during early morning today. Safdarjung airport recorded lowest visibility 900 m during 0700 hours to 1130 hours IST. Mainly smog condition with wind speed less than 12 kmph west direction prevailed over the region in the forenoon today.

Weather Forecast:

26.11.2024: Mainly clear sky. The predominant surface wind is likely to be from northwest direction with speed less than 08 kmph during morning hours. Smog/ shallow to moderate fog is likely in the morning. The wind speed will increase thereafter becoming less than 12 kmph from northwest direction during afternoon. It will decrease thereafter becoming less than 08 kmph from northwest direction during evening and night. Smog/ shallow fog is likely in the evening/night.

27.11.2024: Mainly clear sky. The predominant surface wind is likely to be from variable direction with speed less than 04 kmph during morning hours. Smog/ moderate fog is likely in the morning. The wind speed will gradually increase becoming 04-06 kmph from north direction during afternoon. It will decrease thereafter becoming less than 04 kmph from variable direction during evening and night. Smog/ shallow to moderate fog is likely in the evening/night.

28.11.2024: Mainly clear sky. The predominant surface wind is likely to be from variable direction with wind speed less than 04 kmph during morning hours. Smog/ moderate to dense fog in the morning. The wind speed will increase thereafter becoming 04-06 kmph from variable direction during afternoon. It will gradually decrease becoming less than 04 kmph from variable direction during evening and night. Smog/ shallow to moderate fog is likely in the evening/night.

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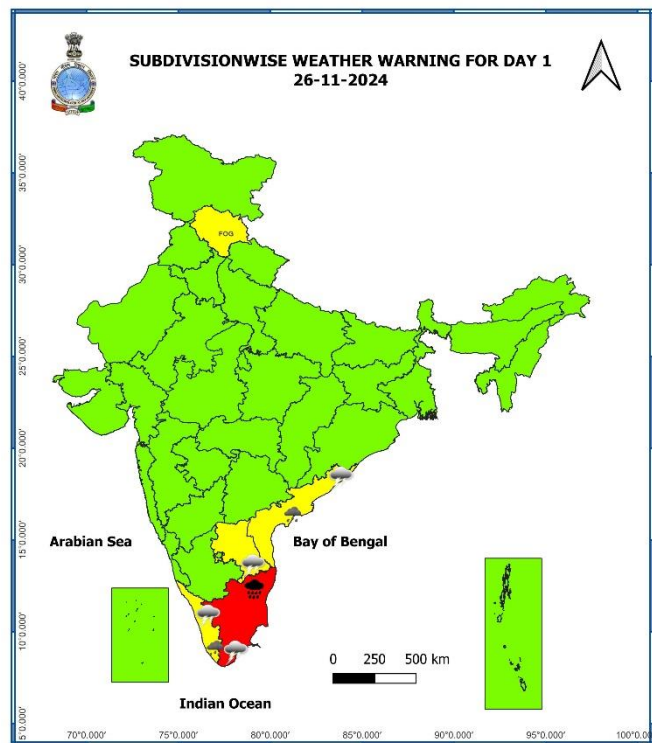
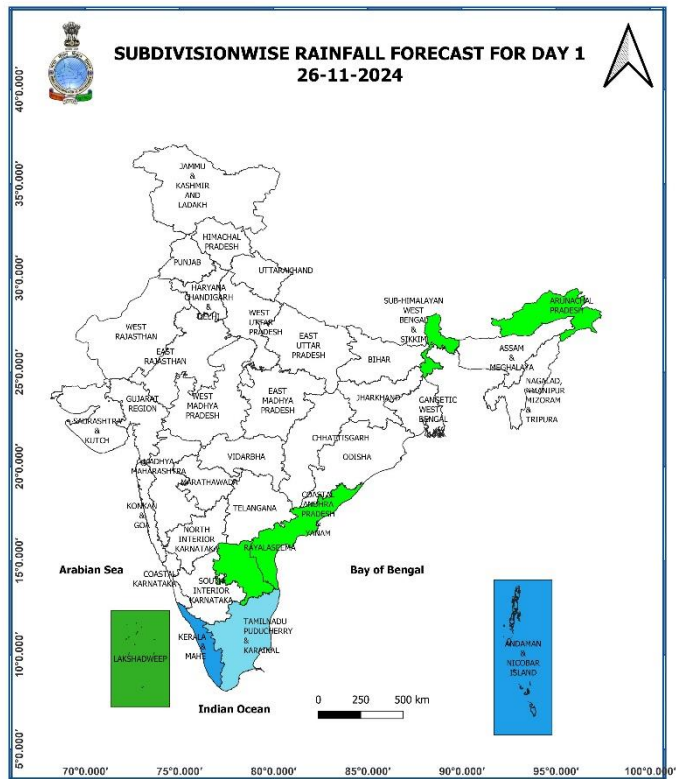
Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at few places** over Andaman & Nicobar Islands; **at isolated places** over Kerala & Mahe.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Andaman & Nicobar Islands:** Maya Bandar-1, Nancowry-2;
- ❖ **Fog conditions observed** (at 0530 hours IST of today): **Dense to very dense** in isolated pockets of Tripura; **dense** in isolated pockets of Bihar; **shallow to moderate** in isolated pockets of Uttar Pradesh, West Bengal.
- ❖ **Visibility reported** (at 0530 hours IST of today) (≤ 500 metres) (in m): **Tripura:** Agartala 50, Kailashahar 500; **Bihar:** Bhagalpur, Purnea 200 each; **Uttar Pradesh:** Gorakhpur 400, Bareilly 500; **West Bengal:** Durgapur 500.
- ❖ **Minimum Temperature Departures (as on 25-11-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over West Rajasthan, Haryana-Chandigarh-Delhi and Bihar; **above normal (2°C to 3°C)** at isolated places over Uttar Pradesh, East Madhya Pradesh, Gujarat Region and Tamil Nadu, Puducherry & Karaikal. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over West Madhya Pradesh, Gangetic West Bengal and Telangana; **below normal (-1.6°C to -3°C)** at many places over Coastal Karnataka; at a few places over Konkan & Goa, Madhya Maharashtra and Chhattisgarh; at isolated places over East Rajasthan, Marathwada, Vidarbha and Saurashtra & Kutch and near normal over rest parts of the country. Yesterday, **the lowest minimum temperature of 10.2°C** was reported at **Sarsawa_IAF (West Uttar Pradesh)** over the plains of the country. **(Fig.4)**
- ❖ **Maximum Temperature Departures (as on 25-11-2024):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at isolated places over East Uttar Pradesh. These were **below normal (-1.6°C to -3.0°C)** at a few places over Gangetic West Bengal and Madhya Maharashtra; at isolated places over West Madhya Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim, Bihar, Gujarat state, Marathwada, Vidarbha, Interior Karnataka, Telangana and Odisha and near normal over rest parts of the country. Yesterday, **the highest maximum temperature of 36.4°C** was reported at **Karwar (Coastal Karnataka)** over the country. **(Fig. 2)**

Meteorological Analysis (Based on 0530 hours IST)

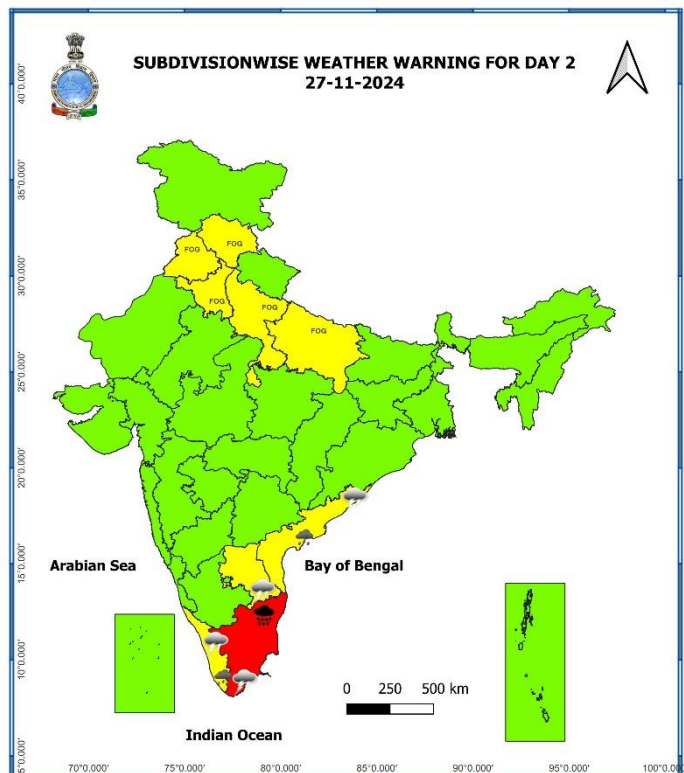
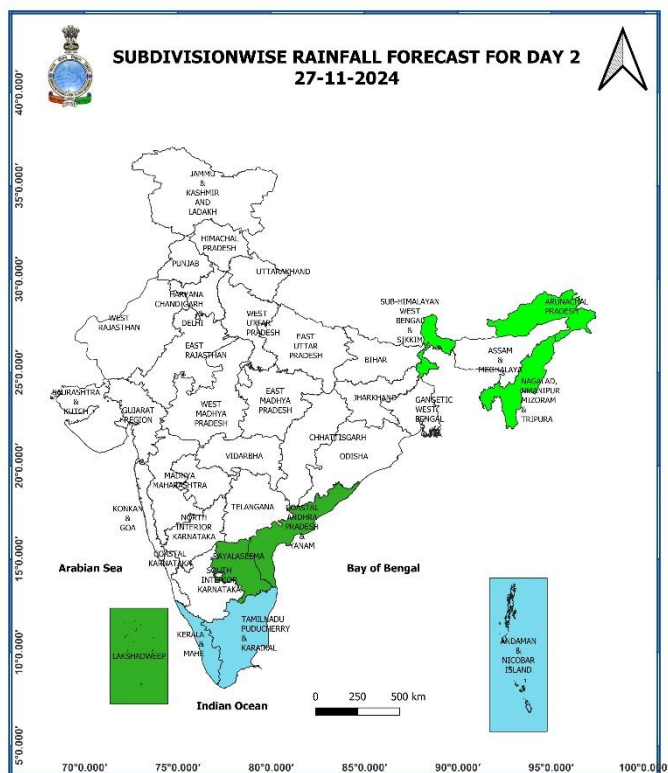
- ❖ The **Depression** over Southwest Bay of Bengal and adjoining East Equatorial Indian Ocean moved north-northwestwards with a speed of 10 kmph during past 6 hours and lay centred at 0530 hours IST of today, the 26th November 2024 over the southwest Bay of Bengal near latitude 6.0°N and longitude 82.9°E, about 340 km south-southeast of Trincomalee, 630 km south-southeast of Nagapattinam, 750 km south-southeast of Puducherry and 830 km south-southeast of Chennai. It is likely to move nearly north-northwestwards and intensify into a deep depression during next 12 hours. Thereafter, it is likely to continue to move north-northwestwards towards Sri Lanka - Tamil Nadu coasts during subsequent 2 days.
- ❖ The **cyclonic circulation** over Sub-Himalayan West Bengal & neighbourhood at 0.9 km above mean sea level persists.
- ❖ A fresh **Western disturbance** is likely to affect Western Himalayan Region from 29th November.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 03rd December, 2024)



26 November (Day 1):

- ❖ **Heavy to very Heavy rainfall with extremely heavy falls (≥ 20 cm)** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal; **Heavy rainfall (≥ 7 cm)** at isolated places over Kerala & Mahe and Coastal Andhra Pradesh & Yanam.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema and Coastal Andhra Pradesh & Yanam.
- ❖ **Dense fog** very likely in isolated pockets of Himachal Pradesh in night/morning hours.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevailing along and off south Kerala coast, over gulf of Mannar and Comorin area, over southwest Bay of Bengal and adjoining parts of southeast and west central Bay of Bengal, along and off Sri Lanka coast, Tamil Nadu, Puducherry & south Andhra Pradesh coasts. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevailing over many parts of southwest and westcentral Bay of Bengal, along and off silence coast. **Squally weather with wind speed 55 kmph to 65 kmph gusting to 75 kmph** is likely to prevailing over some parts of southwest Bay of Bengal, off Sri Lanka coast. Fishermen are advised not to venture into these areas.



27 November (Day 2):

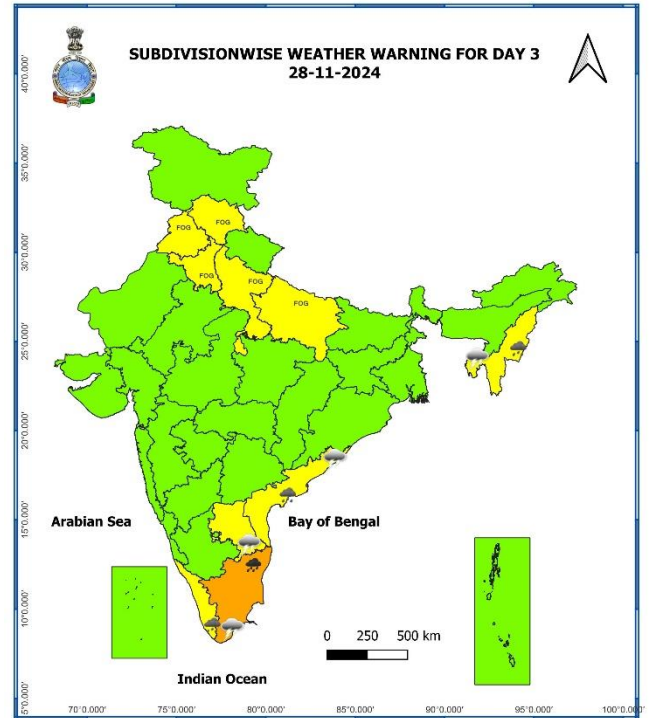
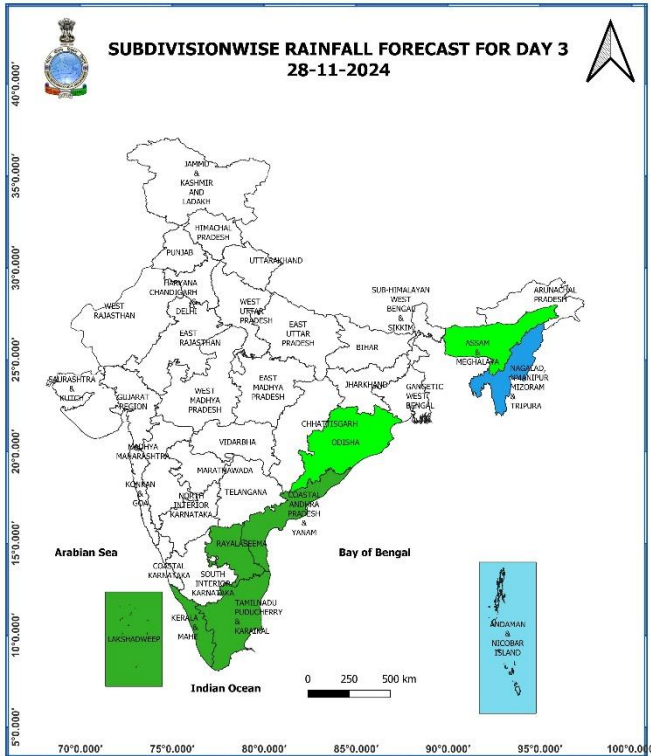
- ❖ **Heavy to very Heavy rainfall with extremely heavy falls (≥ 20 cm)** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal; **Heavy rainfall (≥ 7 cm)** at isolated places over Kerala & Mahe and Coastal Andhra Pradesh & Yanam.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema and Coastal Andhra Pradesh & Yanam.
- ❖ **Dense fog** very likely in isolated pockets of Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi and Uttar Pradesh in night/morning hours.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevailing along and off south Kerala coast, over gulf of Mannar and Comorin area, over many parts of southwest & adjoining parts of southeast Bay of Bengal, over most parts westcentral Bay of Bengal, along and off Sri Lanka, Tamil Nadu, Puducherry & Andhra Pradesh coasts. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevailing over many parts of southwest and westcentral along and off Sri Lanka, Tamil Nadu & south Andhra Pradesh coasts. **Squally weather with wind speed 55 kmph to 65 kmph gusting to 75 kmph** is likely to prevailing over western parts of southwest and adjoining parts of west central Bay of Bengal, along and off Sri Lanka, Tamil Nadu coasts & adjoining south Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

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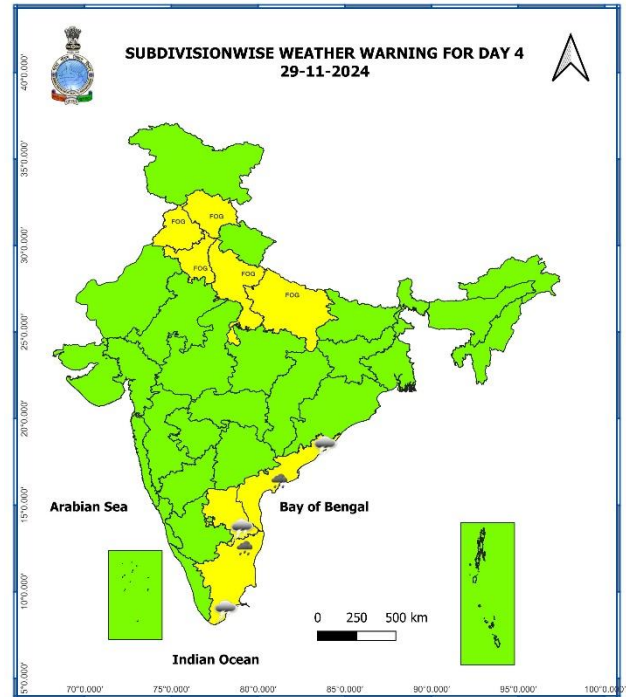
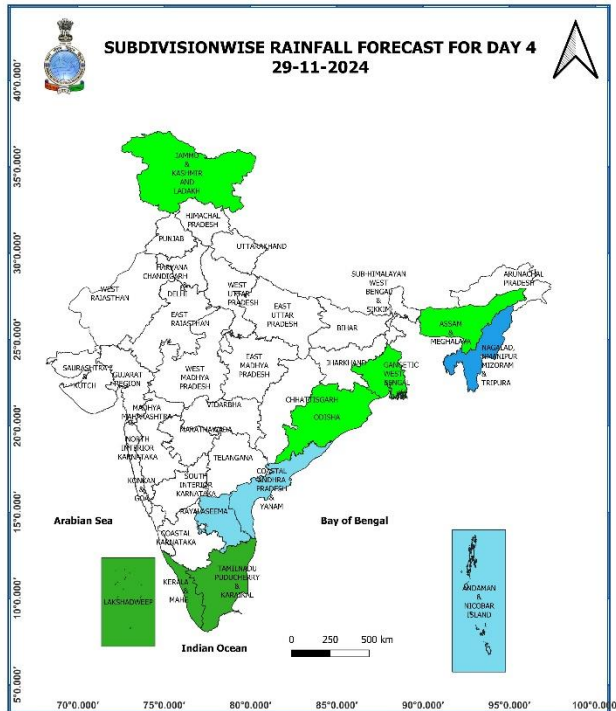
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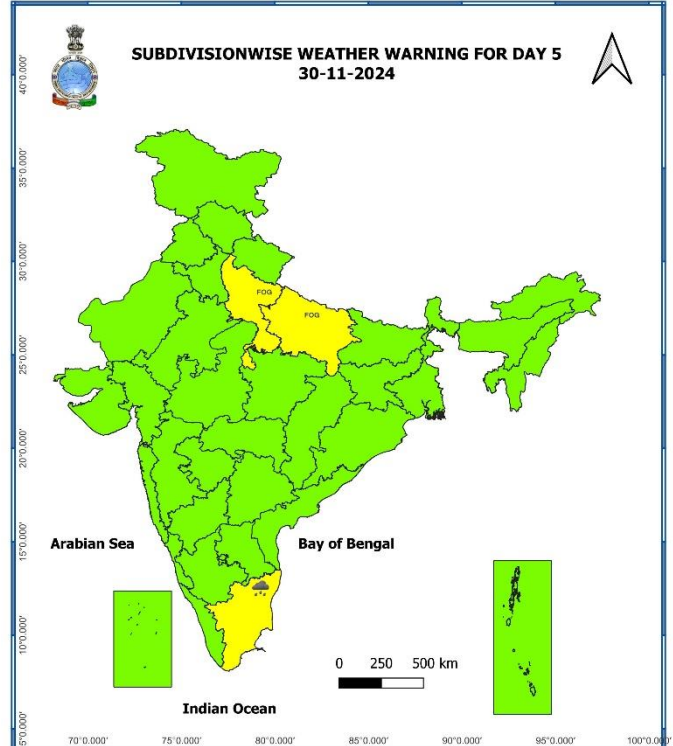
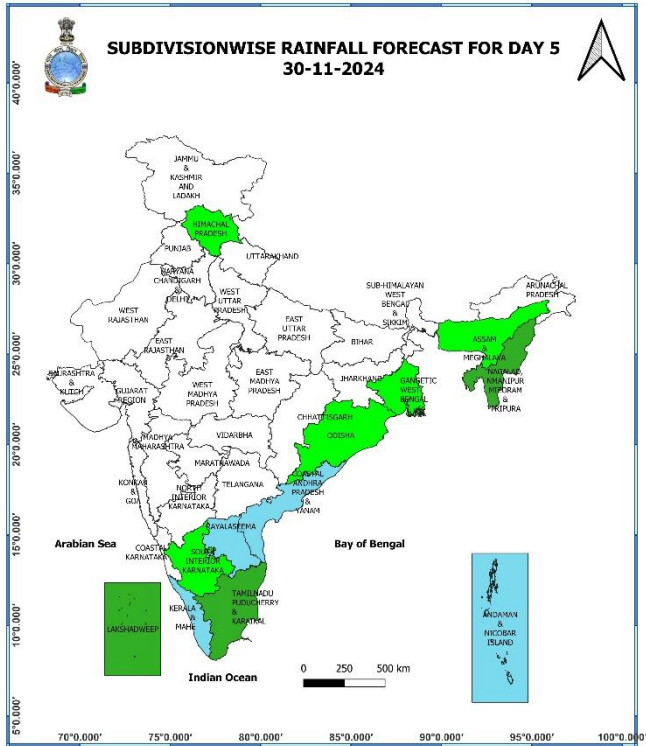
28 November (Day 3):

- ❖ **Heavy to very Heavy rainfall (≥ 12 cm)** likely at isolated places over Tamil Nadu, Puducherry & Karaikal; **Heavy rainfall (≥ 7 cm)** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Coastal Andhra Pradesh & Yanam.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Coastal Andhra Pradesh & Yanam.
- ❖ **Dense fog** likely in isolated pockets of Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi and Uttar Pradesh in night/morning hours.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevailing along and off south Kerala coast, over gulf of Mannar and Comorin area, over southwest and adjoining parts of southeast Bay of Bengal, many parts of westcentral Bay of Bengal, along and off Sri Lanka, Tamil Nadu, Puducherry & Andhra Pradesh coasts. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevailing over many parts of southwest and westcentral Bay of Bengal, along and off Sri Lanka, Tamil Nadu & south Andhra Pradesh coasts. **Squally weather with wind speed 55 kmph to 65 kmph gusting to 75 kmph** is likely to prevailing over some western parts of southwest and adjoining parts of west central Bay of Bengal, along and off Sri Lanka, Tamil Nadu & adjoining south Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.



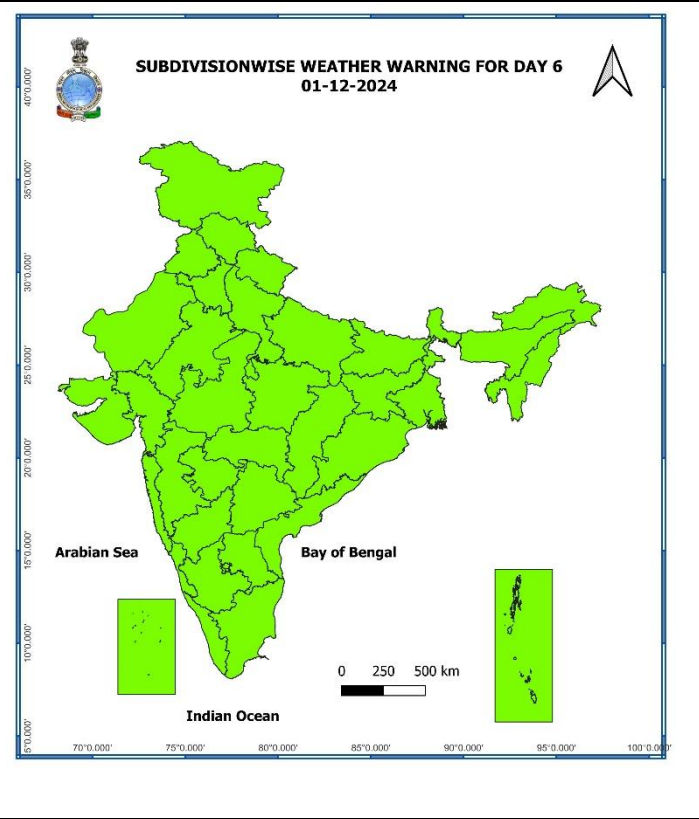
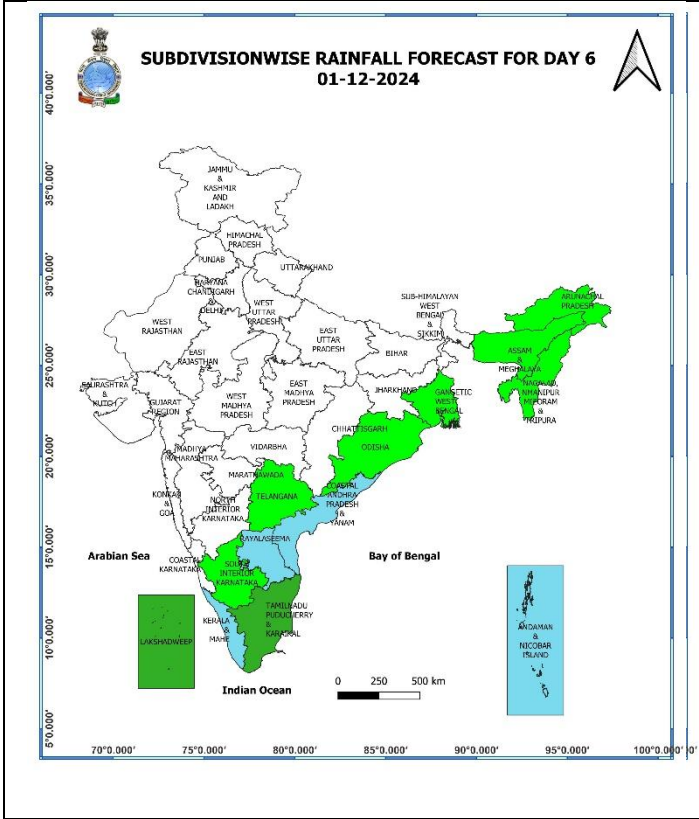
29 November (Day 4):

- ❖ **Heavy rainfall (≥ 7 cm)** likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Coastal Andhra Pradesh & Yanam.
- ❖ **Dense fog** likely in isolated pockets of Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi and Uttar Pradesh in night/morning hours.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevailing along and off south Kerala coast, over gulf of Mannar and Comorin area, over many parts of southwest & adjoining parts of westcentral Bay of Bengal, along and off Sri Lanka, Tamil Nadu, Puducherry & south Andhra Pradesh coasts. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevailing over along and off north Tamil Nadu & adjoining south Andhra Pradesh coasts and adjoining sea area. Fishermen are advised not to venture into these areas.



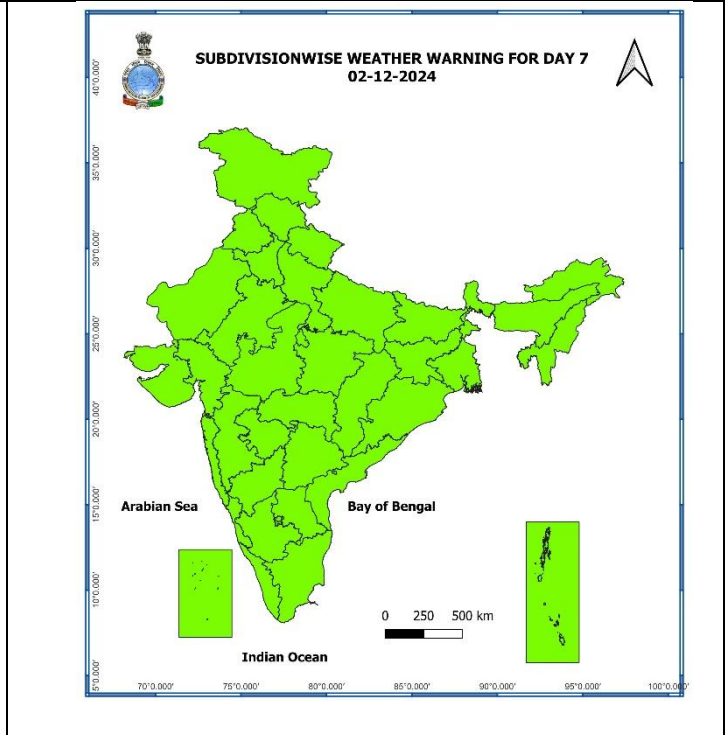
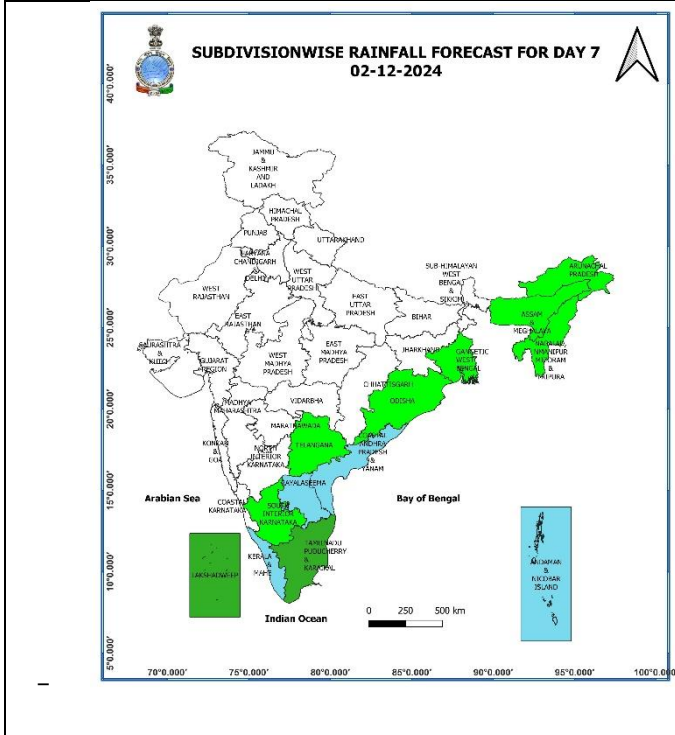
30 November (Day 5):

- ❖ Heavy rainfall (≥ 7 cm) likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- ❖ Dense fog likely in isolated pockets of Uttar Pradesh in night/morning hours.



01 December (Day 6):

❖ **No Warning.**



02 December (Day 7):

❖ **No Warning.**

Weather Outlook for subsequent 3 days (During 03rd December – 05th December, 2024)

- ❖ Isolated to Scattered to light to moderate rainfall likely over some parts of south peninsular India and light rainfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ 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.

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Impact & Action Suggested due to isolated extremely heavy rainfall over Tamil Nadu, Puducherry & Karaikal on 26th & 27th and **isolated heavy to very heavy rainfall** on 28th November 2024.

A. Impact Expected

- ❖ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- ❖ Minor damage to kutchha roads.
- ❖ Possibilities of damage to vulnerable structure.
- ❖ Localized Landslides/Mudslides
- ❖ Damage to horticulture and standing crops in some areas due to inundation.
- ❖ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

B. Action Suggested

- ❖ Check for traffic congestion on your route before leaving for your destination.
- ❖ Follow any traffic advisories that are issued in this regard.
- ❖ Avoid going to areas that face the water logging problems often.
- ❖ Avoid staying in vulnerable structure.

Impact expected due to dense/ very dense fog in the late night /morning hours

- ❖ Transport and Aviation:
 - May affect some airports, highways and railway routes in the areas of met- sub-division.
 - Difficult driving conditions with slower journey times.
 - Unless taken precautionary measures, it may lead to some road traffic collisions.
- ❖ Power Sector:
 - Chances of Tripping of Power lines in the very dense fog routes.
- ❖ Human Health:
 - Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.
 - Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
 - Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

- ❖ Transport and Aviation:
 - Be careful while driving or outing through any transport.
 - Use fog lights during driving.
 - Be in touch with airlines, railways and state transport for schedule of your journey.
- ❖ Power Sector:
 - To keep ready Maintenance Team
 - Human Health: To avoid outing until unless emergency and to cover the face.

Agromet advisories for Heavy Rainfall likely over Tamil Nadu, Kerala and Coastal Andhra Pradesh:

- ✓ In **Tamil Nadu**, provide adequate drainage facilities for the removal of excess water from rice, cotton, sugarcane, turmeric and vegetable fields, coconut and banana orchards. Undertake propping in sugarcane. Provide mechanical support to banana plants to prevent lodging.
- ✓ Make arrangements to drain out excess water from the standing crop fields and fruit orchards in Kerala and Coastal Andhra Pradesh.
- ✓ Keep the harvested produce at safer places.
- ✓ Provide mechanical support to horticultural crops and staking to vegetables.

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

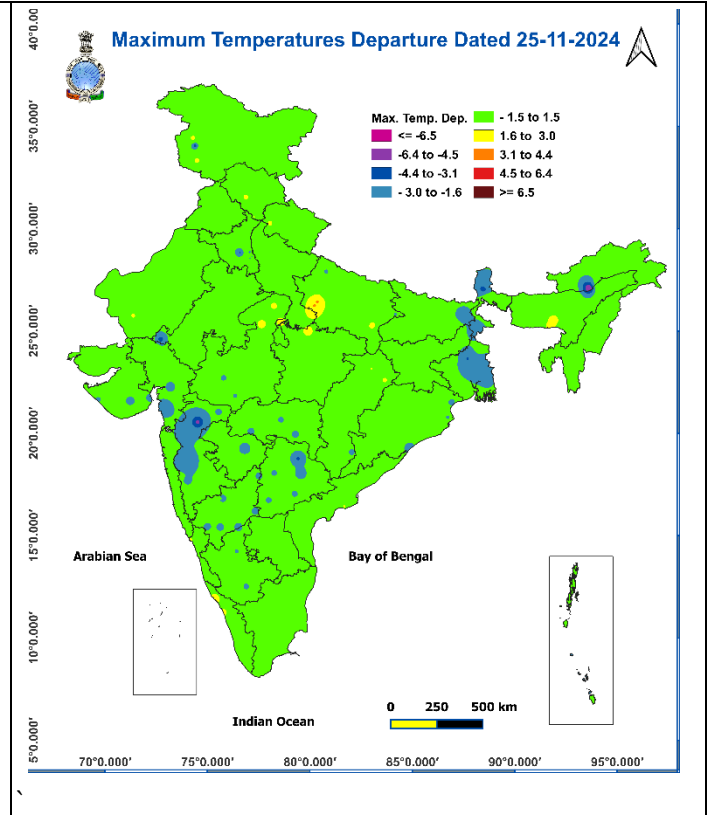
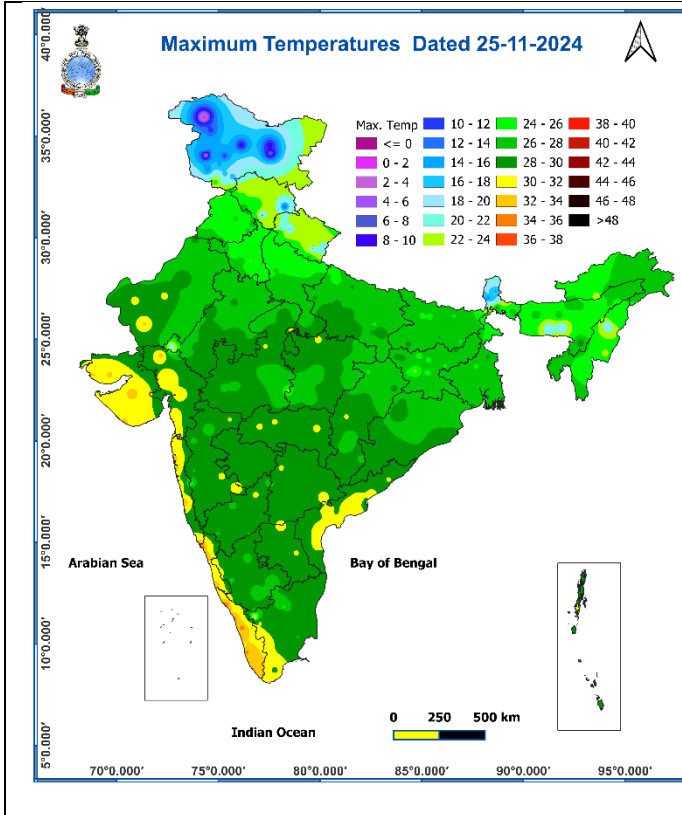


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

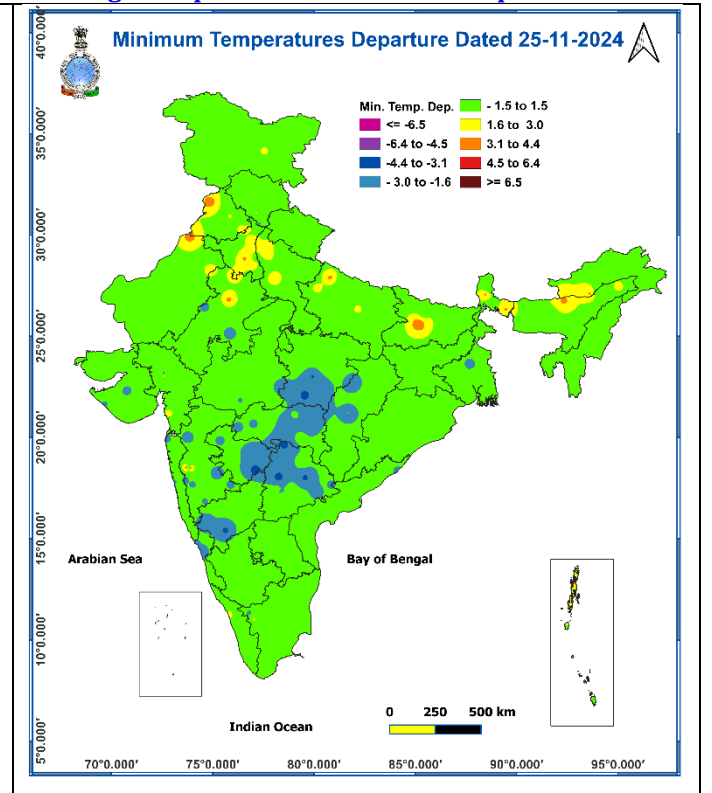
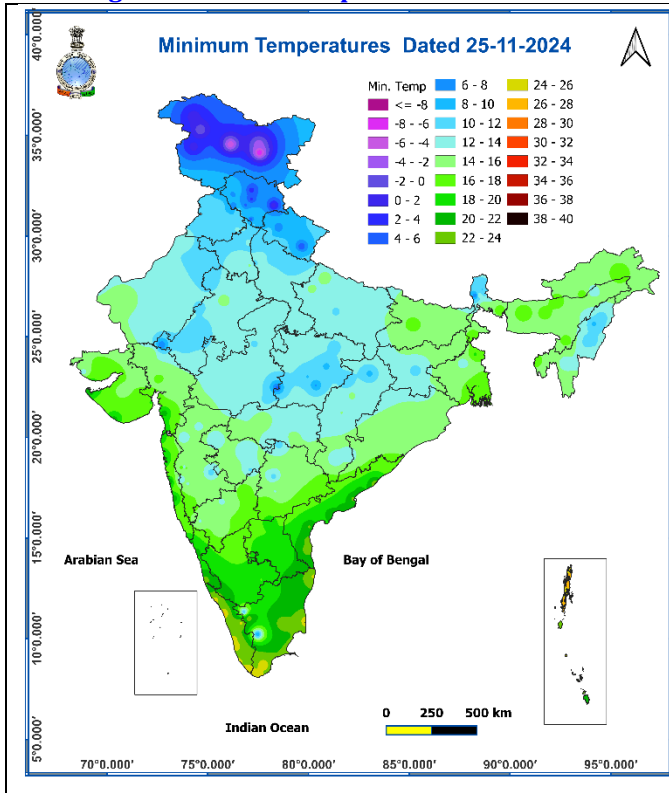
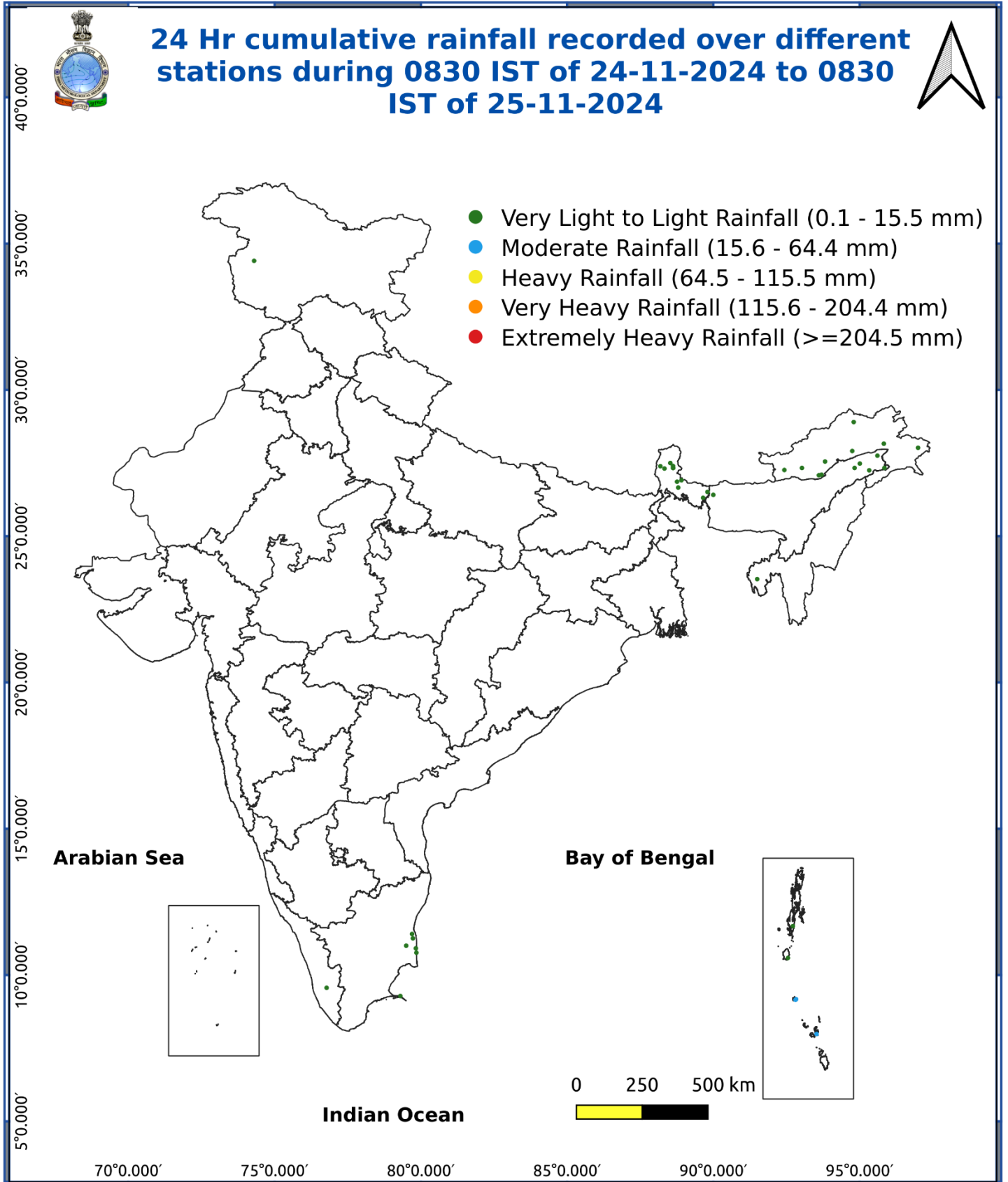


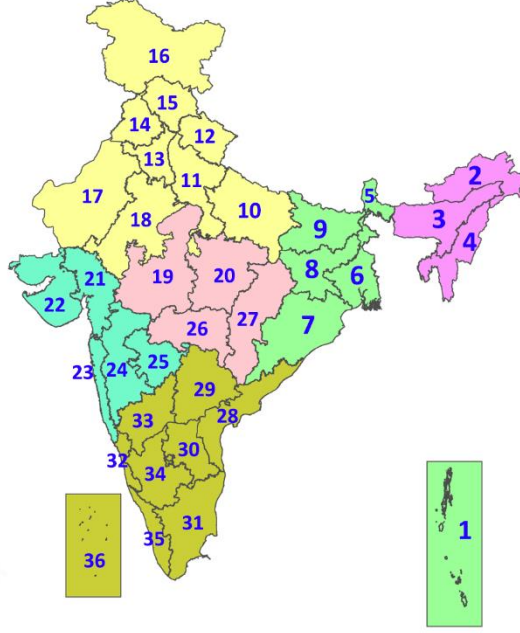
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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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 *

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)