

2025-11-24

Time of Issue: 08:34:00 hours IST
(Morning)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings:

- Heavy rainfall likely over Andaman & Nicobar Islands during 24th - 28th; Tamil Nadu on 24th -25th; Kerala & Mahe during 24th -26th; Lakshadweep, Coastal Andhra Pradesh & Yanam on 24th; with very heavy rainfall over Andaman & Nicobar Islands during 24th -26th; Kerala & Mahe on 24th November.
- Thunderstorm with lightning very likely over Tamil Nadu on 24th & 25th; Kerala & Mahe during 24th -26th; Lakshadweep, Coastal Andhra Pradesh & Yanam on 24th November and over Andaman & Nicobar Islands with gusty wind speeds reaching 40-50 kmph during the next 6 days; with gusty wind speeds reaching 30-40 kmph over coastal districts of Tamil Nadu on 24th November.

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

- Minimum temperatures are in the range of less than 6°C at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at few places over Himachal Pradesh; at isolated places over Uttarakhand; in the range of 7-10°C at many places over Punjab; at isolated places over Haryana Chandigarh & Delhi & Madhya Pradesh. The lowest minimum temperature of 7.4°C is reported at Hissar (Haryana) over the plains of India.
- Minimum Temperature were below normal (-1.6°C to -3.0°C) at few places over Jammu & Kashmir; at isolated places over Uttarakhand, West Rajasthan, Haryana Chandigarh & Delhi, West Madhya Pradesh Saurashtra & Kutch.

Forecast of temperature and cold wave & cold day warnings:

- Gradual fall in minimum temperature likely by 2-3^o C over many plains of northwest India during next 3 days and no large change thereafter.
- Gradual fall in minimum temperature likely by 2-3^o C over Maharashtra during next 3 days and no large change thereafter.
- No large change in the minimum temperature likely over rest part of the country

Dense Fog Warnings:

- **Dense fog conditions** very likely to prevail during night/early morning hours in isolated pockets of northern parts of West Uttar Pradesh on 24th November.

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Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Lakshadweep , Arunachal Pradesh, Tamilnadu Puducherry & Karaikal, Coastal Karnataka and Kerala & Mahe; **at many places** over Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Rayalaseema; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Lakshadweep** : Minicoy (dist Lakshadweep) 11; **Tamilnadu Puducherry & Karaikal**: Tondi (dist Ramanathapuram) 9, Nagapattinam (dist Nagapattinam) 8, Tiruchirapalli AP (dist Tiruchirappalli) 6, Madurai AP (dist Madurai), Adiramapatinam (dist Thanjavur) 5 Each, Karaikal (dist Karaikal) 4, Pamban (dist Ramanathapuram), Pondicherry (dist Puducherry), Coimbatore (peelamedu) AP (dist Coimbatore) 2 Each; **Coastal Karnataka**: Mangalore (bajpe) AP (dist Dakshina Kannada) 2.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0530 hours IST of today):**Heavy rain** at a few places over Lakshadweep , at isolated places over Tamilnadu Puducherry & Karaikal
- ❖ **Fog Condition Observed (at 0530 hours of today): Moderate fog conditions:** at a few places over Nagaland, Manipur, Mizoram & Tripura, at isolated places over Assam & Meghalaya, Odisha and East Uttar Pradesh **Shallow fog conditions:** at a few places over Odisha, Bihar and West Uttar Pradesh, at isolated places over Assam & Meghalaya, Gangetic West Bengal and West Madhya Pradesh
- ❖ **Visibility reported** : Varanasi (Uttar Pradesh), Gopalpur (Odisha), Barapani (Meghalaya), Mohanbari (Assam) 200 each; Bareilly (Uttar Pradesh), Gwaliior (Madhya Pradesh), Purnea, Gaya (Bihar), Jharsiguda, Bhubaneshwar, Paradip (Odisha) 500 each.
- ❖ **Minimum Temperature Departures (as on 23-11-2025): The lowest minimum temperature** of 10.0°C is reported at ETAWAH (UTTAR PRADESH), BULANDSHAHR (UTTAR PRADESH), TONK (RAJASTHAN), and AMBIKAPUR (CHHATTISGARH) over the Plains of India.
- ❖ **Maximum Temperature Departures (as on 23-11-2025): The highest maximum temperature** of 35.8°C is reported at KARWAR (KARNATAKA).

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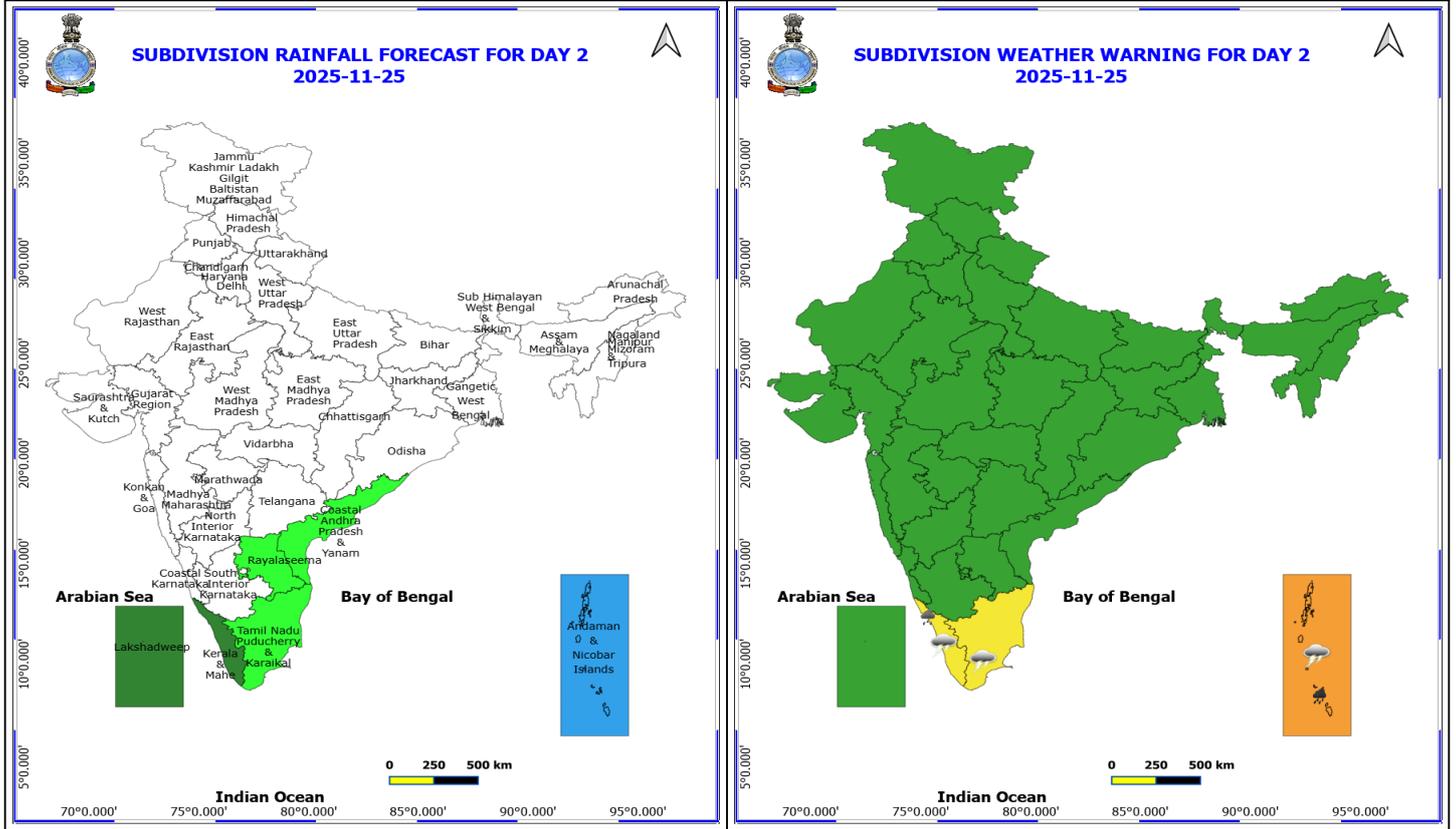
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Meteorological Analysis (Based on 0530 hours IST)

- The **well marked low pressure area** over Strait of Malacca and adjoining south Andaman Sea persisted over the same region at 0530 hours IST of today, the 24th November, 2025. The associated cyclonic circulation extended upto 7.6 km above mean sea level. It is very likely to move west-northwestwards and intensify into a **depression** over southeast Bay of Bengal and adjoining south Andaman Sea during next 24 hours. Continuing to move further west-northwestwards, it is very likely to intensify into a **cyclonic storm** over southeast Bay of Bengal during subsequent 48 hours.
- The **upper air cyclonic circulation** over Comorin area and neighbourhood persisted over the same region at 0530 hours IST of today, the 24th November, 2025. The associated cyclonic circulation extended upto 5.8 km above mean sea level. Under its influence, a **low-pressure area** is likely to form over Comorin and adjoining areas of southwest Bay of Bengal & Sri Lanka around 25th November.
- The **cyclonic circulation** over southeast Arabian Sea extending upto 3.1 km above mean sea level persists.
- The **upper air cyclonic circulation** over east Bangladesh & neighbourhood at 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over northeast Arunachal Pradesh & neighbourhood lay over northeast Assam & neighbourhood at 3.1 km above mean sea level.

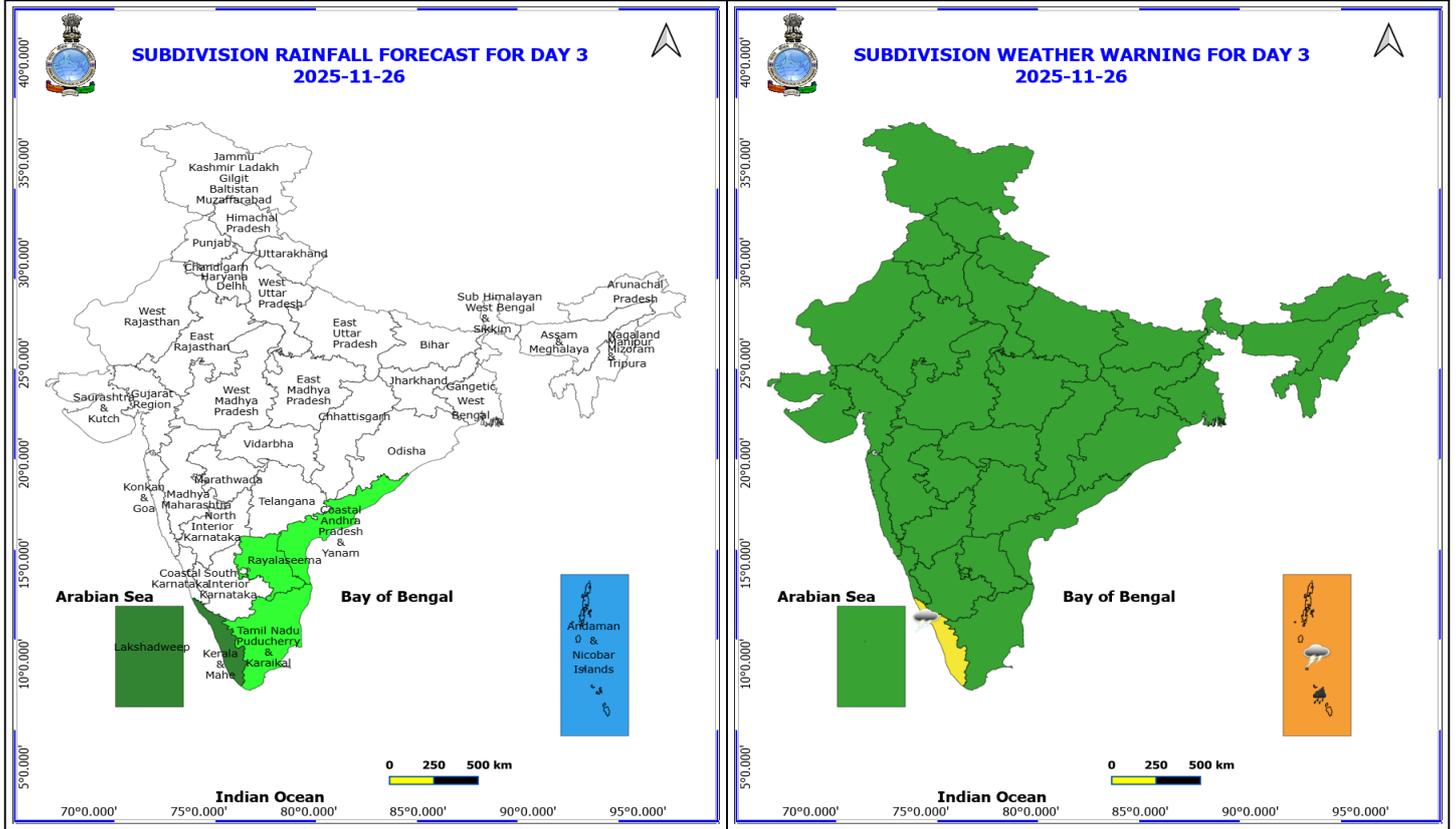
Weather Outlook for subsequent 3 days

- Fairly widespread to widespread rainfall activity likely over Tamil Nadu, Kerala and Andaman & Nicobar Islands.
- Isolated to scattered rainfall activity over Coastal Andhra Pradesh, Coastal Karnataka and South Interior Karnataka.



25 November (Day 2)

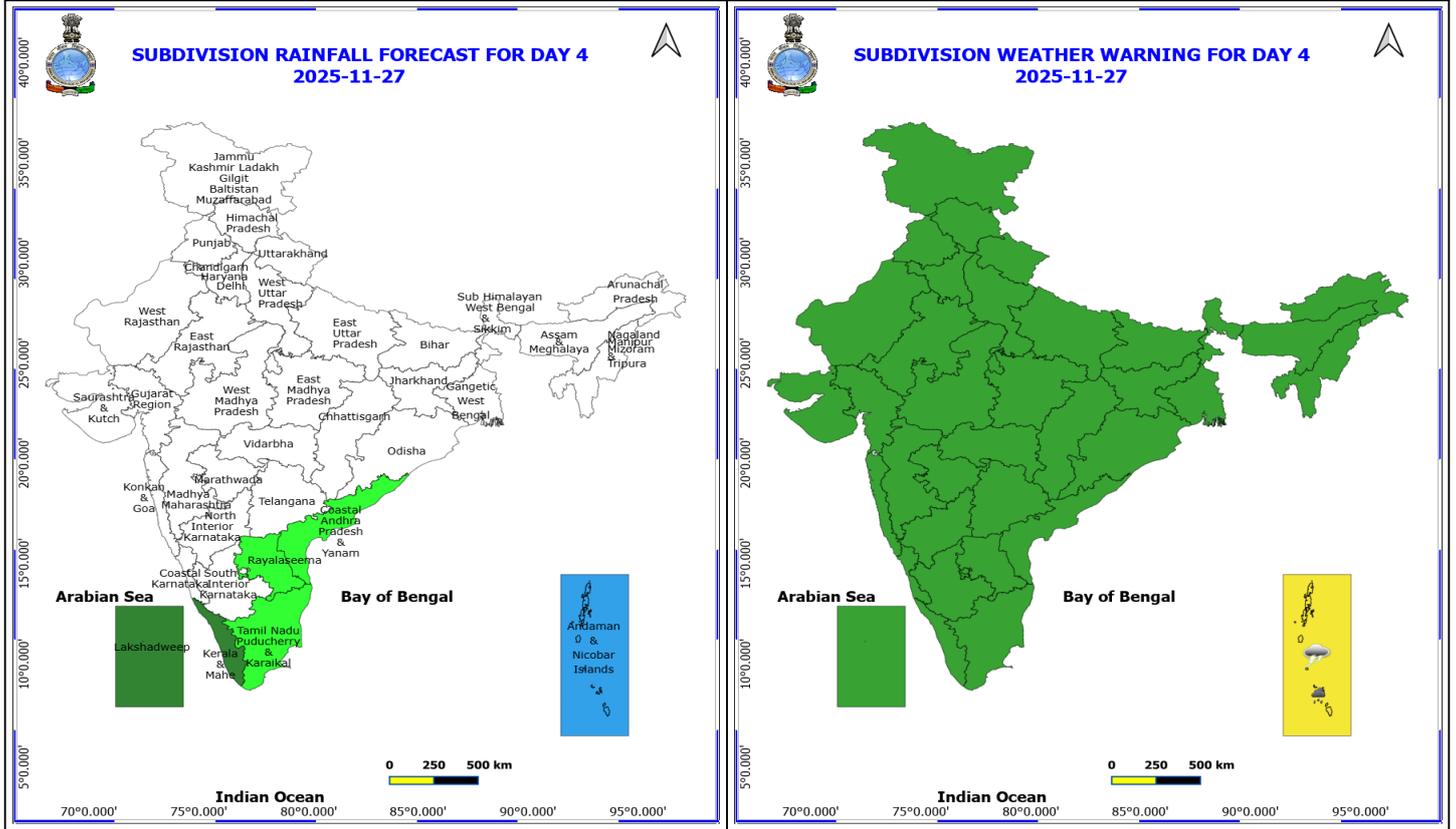
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph will prevail over Andaman Sea, over south Bay of Bengal & adjoining central Bay of Bengal, along and off Tamil Nadu and Sri Lanka coasts, over Gulf of Mannar & adjoining Comorin area.
- ❖ Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph will prevail over south Andaman Sea and adjoining, some parts of southeast Bay of Bengal.



26 November (Day 3)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph will prevail over Andaman Sea, over south Bay of Bengal & adjoining central Bay of Bengal, along and off Tamil Nadu & Sri Lanka coasts, over Gulf of Mannar & adjoining Comorin area.
- ❖ Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph will prevail over south & adjoining north Andaman Sea, over many parts of southeast Bay of Bengal and adjoining, few parts of southwest Bay of Bengal.
- ❖ Squally winds with speeds reaching 55 kmph to 65 kmph gusting to 75 kmph will prevail over some parts of southeast Bay of Bengal and adjoining south Andaman Sea.
- ❖ Gale winds with speeds reaching 60 kmph to 80 kmph gusting to 90 kmph will prevail over southeast Bay of Bengal adjoining south Andaman Sea.

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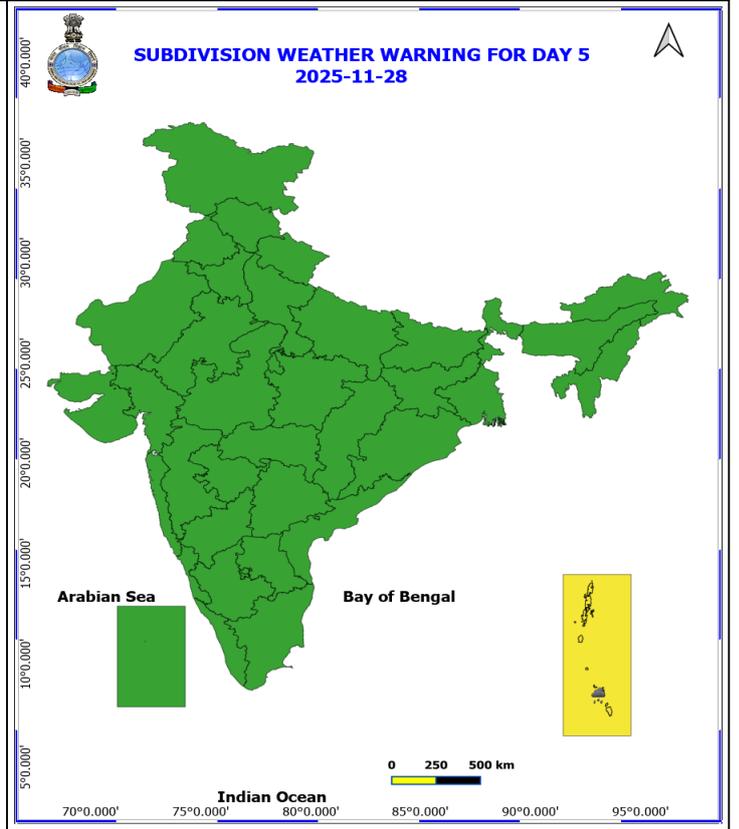
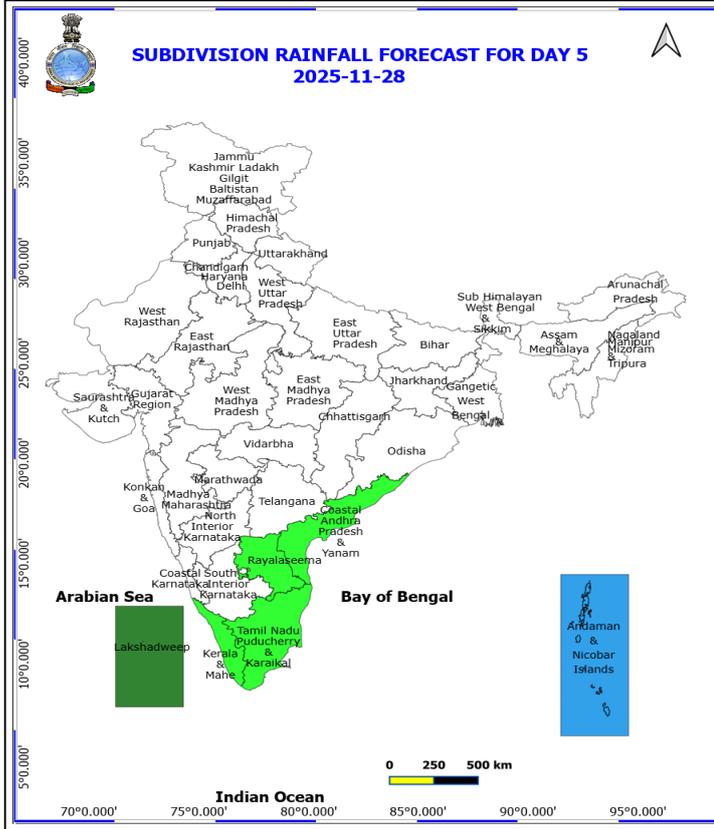


27 November (Day 4)

- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph will prevail over Andaman Sea, over south Bay of Bengal & adjoining central Bay of Bengal, along and off Tamil Nadu & Sri Lanka coasts, over Gulf of Mannar & adjoining Comorin area.
- ❖ Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph will prevail over south & adjoining north Andaman Sea, over many parts of southeast Bay of Bengal and adjoining, few parts of southwest Bay of Bengal.
- ❖ Squally winds with speeds reaching 55 kmph to 65 kmph gusting to 75 kmph will prevail over some parts of southeast Bay of Bengal and adjoining south Andaman Sea.
- ❖ Gale winds with speeds reaching 60 kmph to 80 kmph gusting to 90 kmph will prevail over southeast Bay of Bengal adjoining south Andaman Sea.

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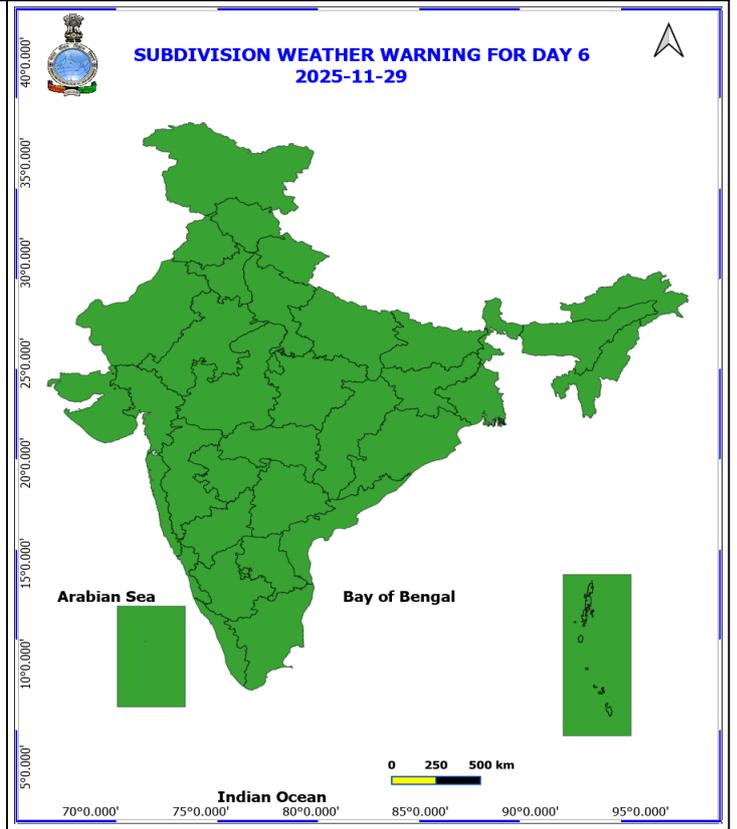
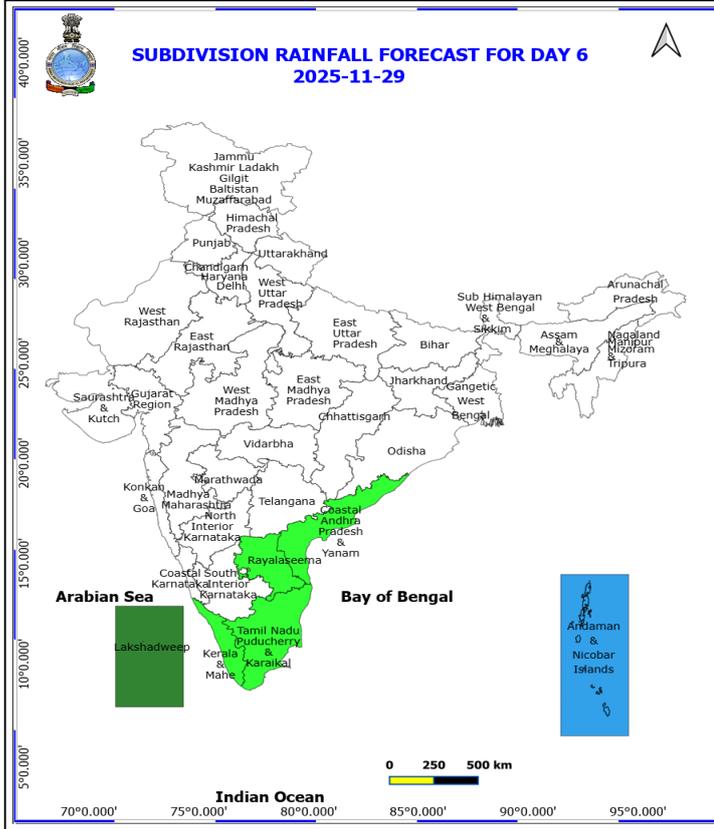
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28 November (Day 5)

❖ Heavy Rainfall likely at isolated places over Andaman & Nicobar Islands.

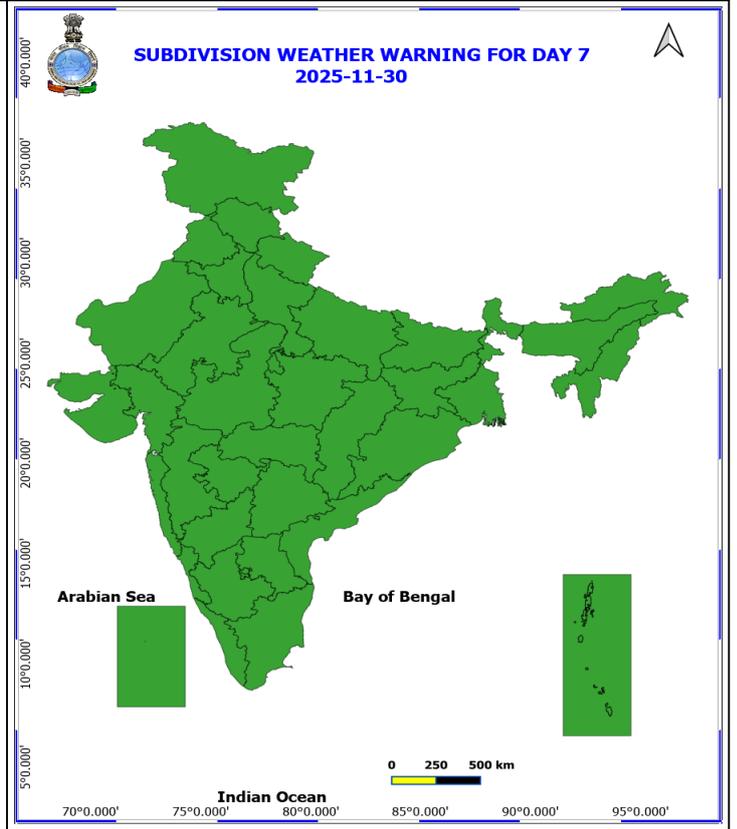
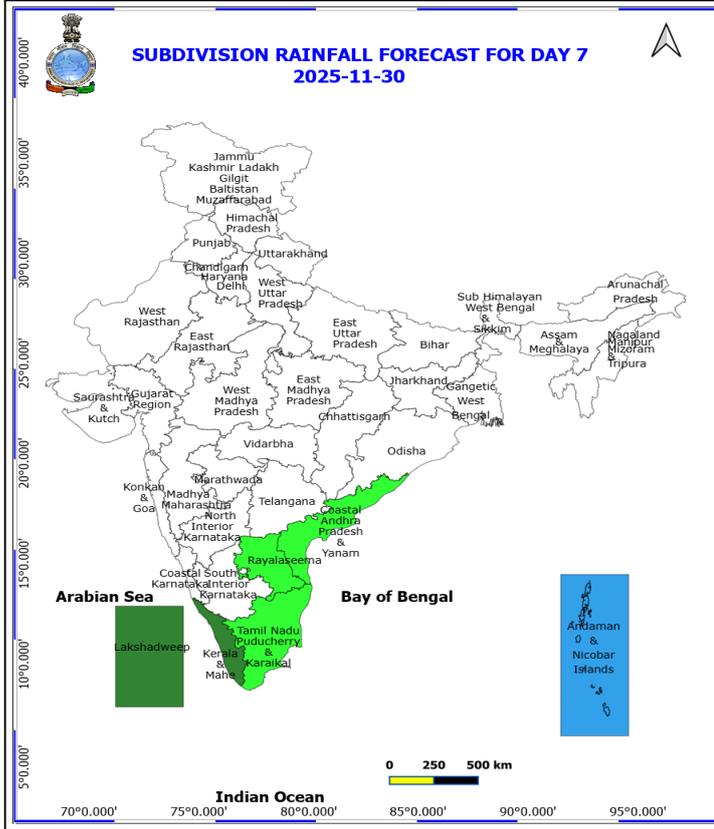
No Fishermen Warning



29 November (Day 6)

No weather Warning
No Fishermen Warning

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30 November (Day 7)

No Weather Warning
No Fishermen Warning

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Flash Flood Warnings

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 25-11-2025 :

- Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.
- Tamil Nadu - Puducherry & Karaikal - Dindigul, Teni, Tirunelveli and Tuticorin districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.

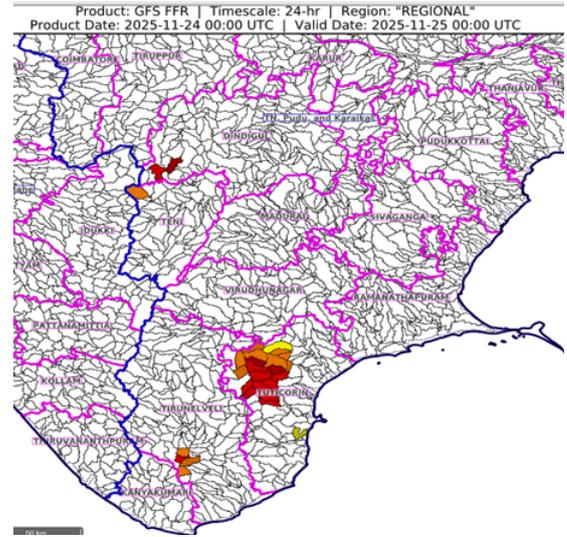




Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	24- Nov	25- Nov	26- Nov	27- Nov	28- Nov	29- Nov	30- Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	DRY						
3	ASSAM & MEHGHALAYA	DRY						
4	N. M. M. & T.	DRY						
5	S.H. WEST BENGAL & SIKKIM	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	DRY						
8	JHARKHAND	DRY						
9	BIHAR	DRY						
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	DRY						
12	UTTARAKHAND	DRY						
13	HARYANA, CHD & DELHI	DRY						
14	PUNJAB	DRY						
15	HIMACHAL PRADESH	DRY						
16	JAMMU AND KASHMIR AND LADAKH	DRY						
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	DRY						
19	WEST MADHYA PRADESH	DRY						
20	EAST MADHYA PRADESH	DRY						
21	GUJRAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY						
26	VIDARBHA	DRY						
27	CHATTISGARH	DRY						
28	COASTAL ANDHRA PRADESH	ISOL						
29	TELANGANA	DRY						
30	RAYALASEEMA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	SCT	DRY	DRY	DRY	DRY	DRY	DRY
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
35	KERALA	SCT	SCT	SCT	SCT	ISOL	ISOL	SCT
36	LAKSHDWEEP	FWS	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

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Fig. 1: Maximum Temperatures Dated 2025-11-23

Fig. 2: Departure of Maximum Temp. Dated 2025-11-23

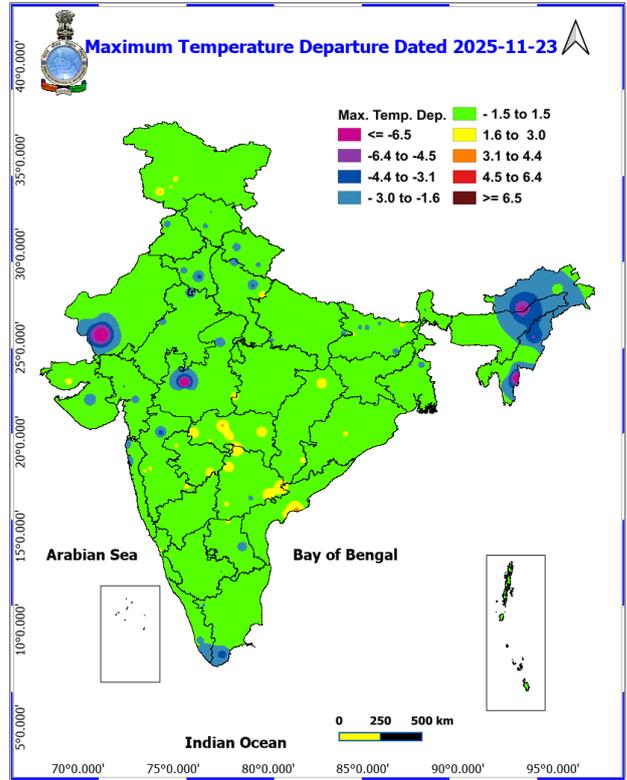
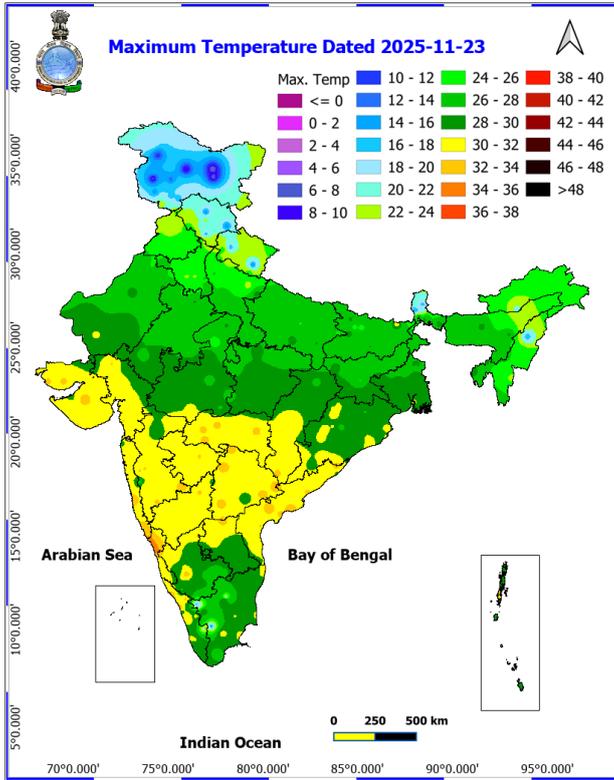
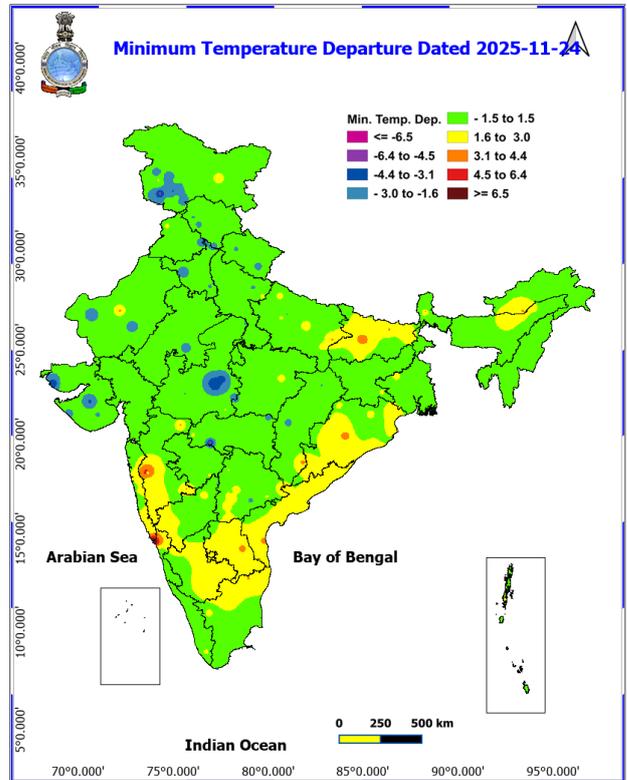
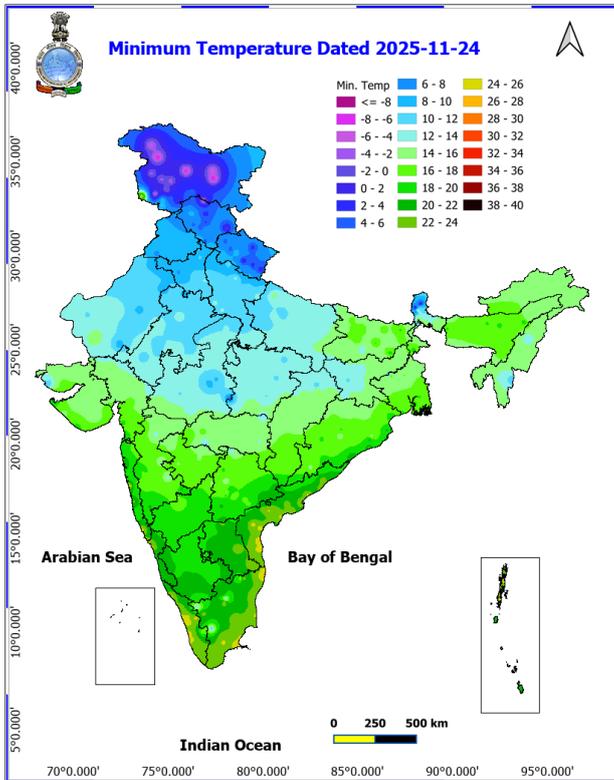


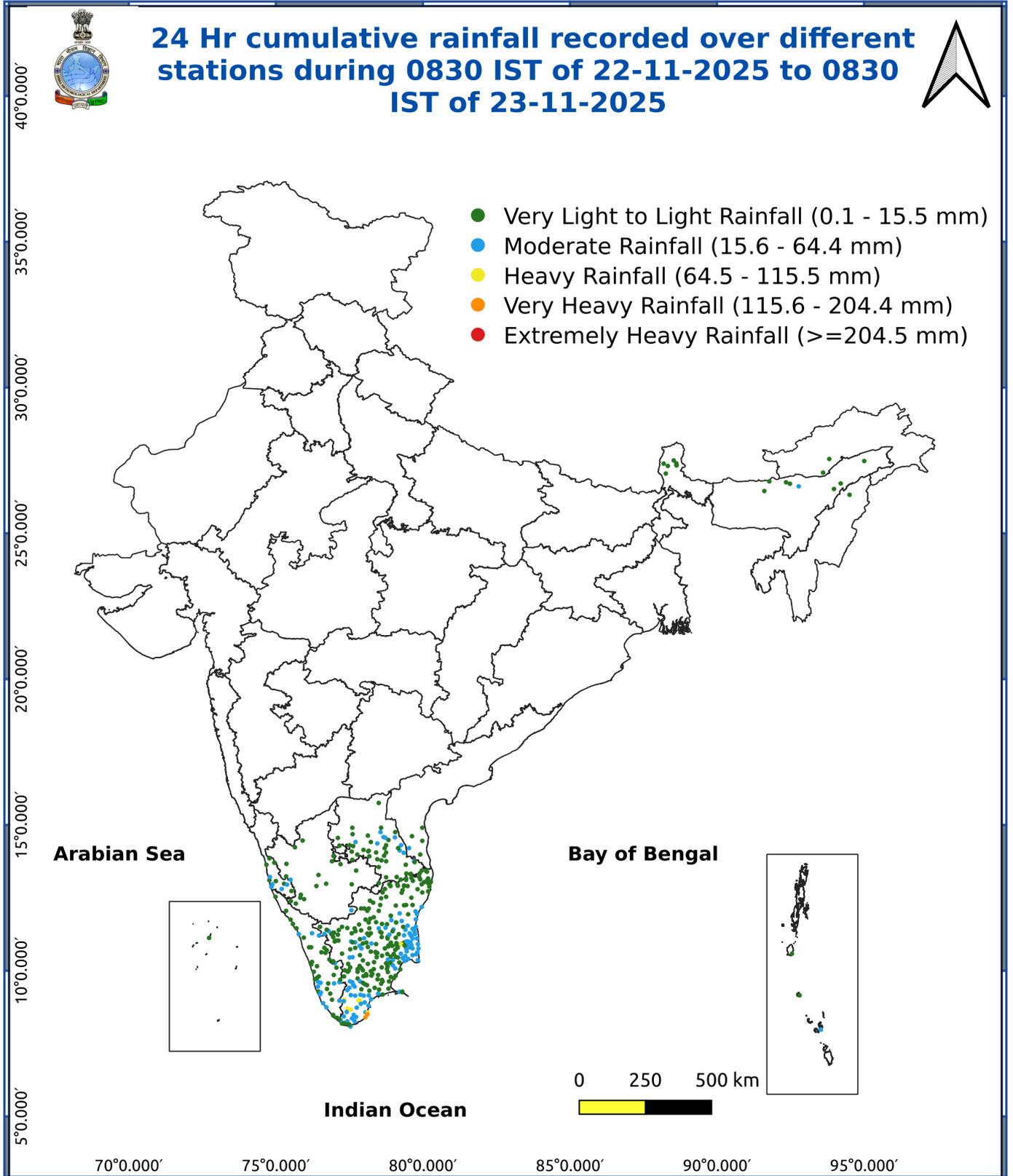
Fig. 3: Minimum Temperatures Dated 2025-11-24

Fig. 4: Departure of Minimum Temp. Dated 2025-11-24



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Impact & Action Suggested due to

- Isolated **very Heavy rainfall likely** over Kerala & Mahe on 24th; Andaman & Nicobar Islands during 24th -26th November.

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 kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landslips/mudslips/landsinks/mudsinks.
- 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)

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.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Heavy Rainfall

Agromet advisories for likely impact of Heavy / Heavy to Very Heavy Rainfall

- In **Tamil Nadu**, drain out excess rain water from fields of rice, groundnut, sugarcane, cotton, black gram, maize and vegetables and plantations of coconut, banana, arecanut, mango, rubber, cinnamon and black pepper. Strengthen irrigation channels and field bunds in rice to avoid crop lodging. Provide support to banana plants with wooden poles to prevent them from falling.
- In **Kerala**, ensure adequate drainage facilities in fields of rice, vegetables and plantations of banana, coconut, cardamom and black pepper. Carry out propping in banana to prevent their falling due to heavy rainfall. Undertake staking for vegetables grown in pandals.
- In **Andaman and Nicobar Islands**, store the harvested produce of rice in well-covered elevated places to prevent moisture damage. Avoid early sowing of pulses and lentil during heavy rainfall. Provide mechanical support to banana and papaya plants at fruiting stage. Drain out excess water from vegetable nurseries and protect young seedlings using temporary rain shelters or plastic covers.

Livestock / Fishery

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

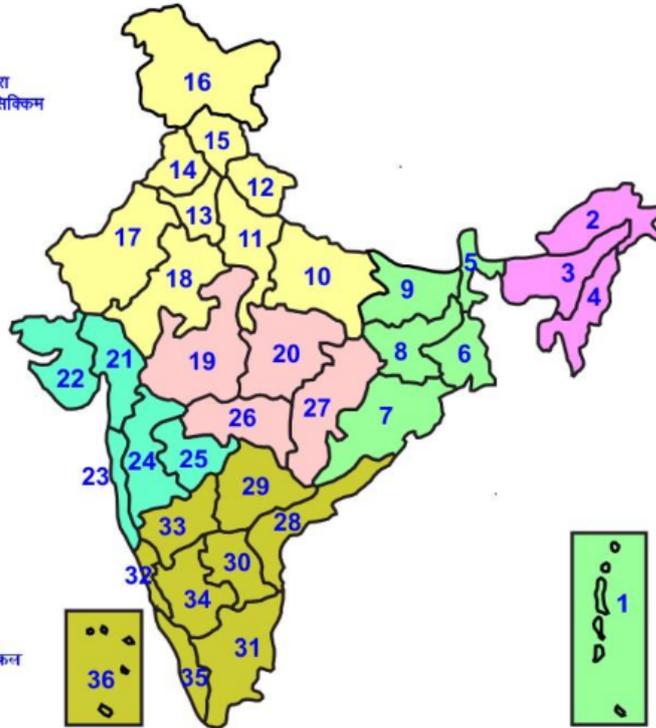
Legends & abbreviations:

Region wise classification of meteorological Sub-Divisions:

- **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
- **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ 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 क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय 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. Orissa
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)

Subdivision Colour

- NO WARNING
- WATCH (BE UPDATED)
- 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

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

*Red color warning does not mean "Red Alert" Red color warning means "Take Action"

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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



Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm*
Extremely Heavy: > 204.4 mm/cm *



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 $\geq 37^{\circ}\text{C}$



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 $> 6.4^{\circ}\text{C}$.



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 $\leq 15^{\circ}\text{C}$



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 $\leq -6.5^{\circ}\text{C}$



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



Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)



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



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



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)

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