राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

2025-11-25
Time of Issue: 08:48:00 hours IST
(Morning)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings:

- **Heavy rainfall** likely over Tamil Nadu during 25th-27th; Kerala & Mahe on 25th & 26th, Andaman & Nicobar Islands during 25th and 29th, Coastal Andhra Pradesh & Yanam on 29th November with **very heavy rainfall over Tamil Nadu on 28th-30th, Andaman & Nicobar Islands during 26th-28th, Coastal Andhra Pradesh & Yanam on 30th November.**
- **Thunderstorm with lightning** very likely over Tamil Nadu during 25th-28th, Kerala & Mahe on 25th & 26th, Coastal Andhra Pradesh & Yanam on 27th & 28th November and over Andaman & Nicobar Islandswith **gusty wind speeds reaching 40-50 kmph** during the next 6 days.

Forecast of temperature and cold wave & cold day warnings:

- Gradual fall in minimum temperature likely by 2-3^0 C over many parts of northwest India during next 3 days and no significant change thereafter.
- No significant change in the minimum temperature likely over Central India during next 2 days and Gradual fall by 2-3^0 C during subsequent 3 days and no significant change thereafter.
- No significant change in the minimum temperature likely over rest part of the country during next 5 days.

Dense Fog Warnings:

- **Dense fog conditions** very likely to prevail during night/early morning hours in isolated pockets of northwestern parts of West Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 25th November

Fishermen Warning:

Fishermen are advised not to venture into
(a) South Andaman Sea till 27th.
(b) Southeast Bay of Bengal during 25th to 28th.
(c) Southwest Bay of Bengal, Gulf of Mannar, Comorin area and along & off Tamil Nadu, Puducherry & Sri Lanka coasts till 29th November
(d) Adjoining areas of westcentral Bay of Bengal and along & off Andhra Pradesh coast from 27th to 30th November
(e) Adjoining areas of Southeast Arabian Sea, Lakshadweep, Maldives and along & off Kerala coast during 25th to 27th November.

Those out at sea should avoid South Andaman Sea till 27th, Southeast Bay of Bengal during 25th to 28th, southwest Bay of Bengal till 29th and westcentral Bay of Bengal during 27th to 30th November.

The fishermen along & off Andhra Pradesh coast should return to coast before 28th November.

Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Tamilnadu Puducherry & Karaikal; **at many places** over Lakshadweep and Kerala & Mahe; **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**) 6, Kovlkaduvu (dist. Idukki) 1; **Tamilnadu Puducherry & Karaikal**: Pamban (dist Ramanathapuram), Pondicherry (dist Puducherry), Kanyakumari (dist Kanyakumari), Tiruchirapalli AP (dist Tiruchirappalli), Karaikal (dist Karaikal), Nagapattinam (dist Nagapattinam), Cuddalore (dist Cuddalore) 1 Each.

❖ **Fog Condition Observed (at 0530 hours of today): Moderate fog conditions:** at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura **Shallow fog conditions:** at a few places over Bihar and Punjab, at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Haryana Chandigarh & Delhi, West Madhya Pradesh and Chhattisgarh.

❖ **Visibility reported (at 0530 hours of today): Assam & Meghalaya:** Barapani/shillong (dist East Khasi Hills) 200.0, Guwahati (dist Kamrup Metropolitan), Dhubri (dist Dhubri) 500.0 Each; **Nagaland, Manipur, Mizoram & Tripura:** Agartala AP (dist West Tripura) 200.0, Kailashahar AP (dist Unakoti) 500.0; **Haryana Chandigarh & Delhi:** New Delhi (safdarjung) (dist South West Delhi) 500.0; **Gangetic West Bengal:** Diamond Harbour (dist South 24 Parganas) 500.0; **Odisha:** Gopalpur (dist Ganjam), Jharsuguda (dist Jharsuguda) 500.0 Each; **Bihar:** Purnea (dist Purnia), Gaya (dist Gaya) 500.0 Each; West Madhya Pradesh: Gwalior (dist Gwalior) 500.0; **Punjab:** Amritsar (rajasansi) AP (dist Amritsar) 500.0; **Chhattisgarh:** Ambikapur (dist Surguja) 500.0.

❖ **Minimum Temperature Departures (as on 24-11-2025): The lowest minimum temperature of 7.4°C is reported at Hissar (Haryana) over the plains of India.**

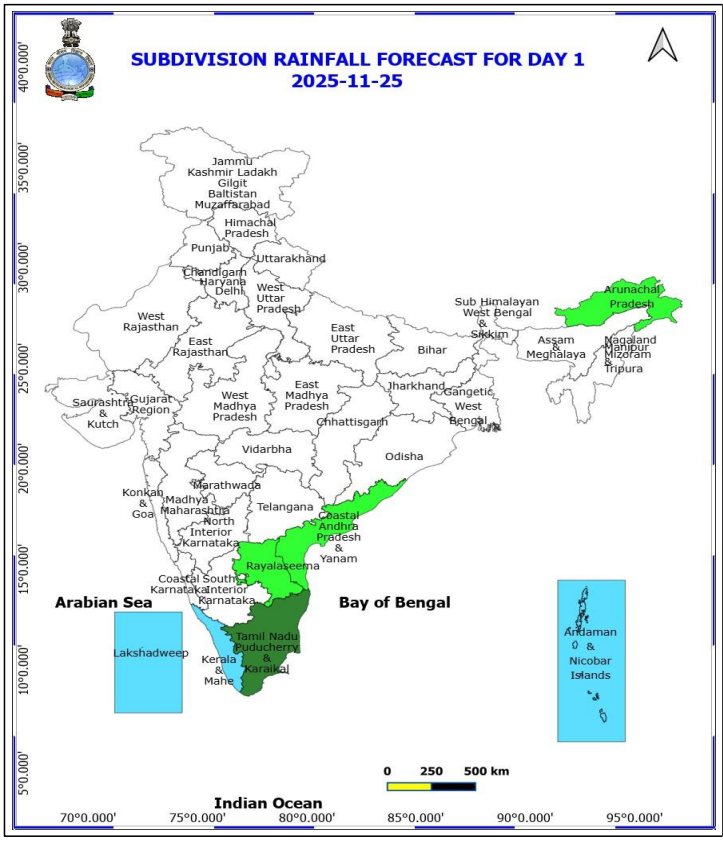
❖ **Maximum Temperature Departures (as on 24-11-2025): The highest maximum temperature** of 36.6°C was reported at KARWAR (KARNATAKA).

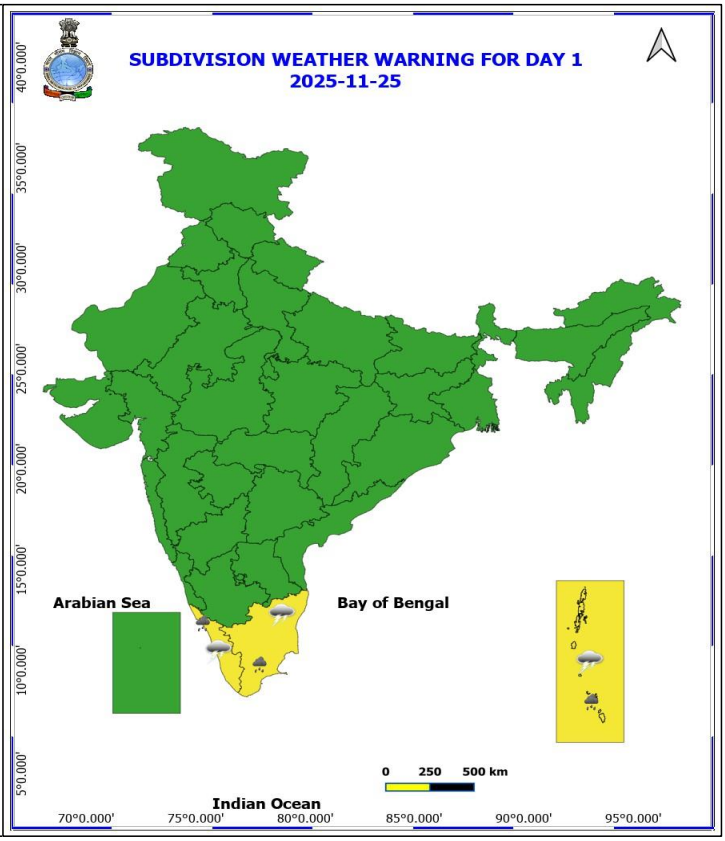
Meteorological Analysis (Based on 0530 hours IST)

- The **well marked low pressure** area over Malaysia and adjoining Strait of Malacca moved slightly west-northwestwards and lay over Strait of Malacca at 0530 hours IST of today, the 25th November, 2025. It is very likely to move west-northwestwards and intensify into a **depression** over the same region during next 06 hours. Continuing to move west-northwestwards, it is very likely to intensify further into a cyclonic storm over south Bay of Bengal during subsequent 48 hours.
- Under the influence of upper air cyclonic circulation over Comorin area and neighbourhood, a **low-pressure area** has formed over Comorin and adjoining areas of southwest Bay of Bengal & Sri Lanka at 0530 hours IST of today, the 25th November, 2025. It is likely to become more marked during next 24 hours.
- The **cyclonic circulation** over southeast Arabian Sea extending upto 3.1 km above mean sea level persists.

Weather Outlook for subsequent 3 days

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





25 November (Day 1)

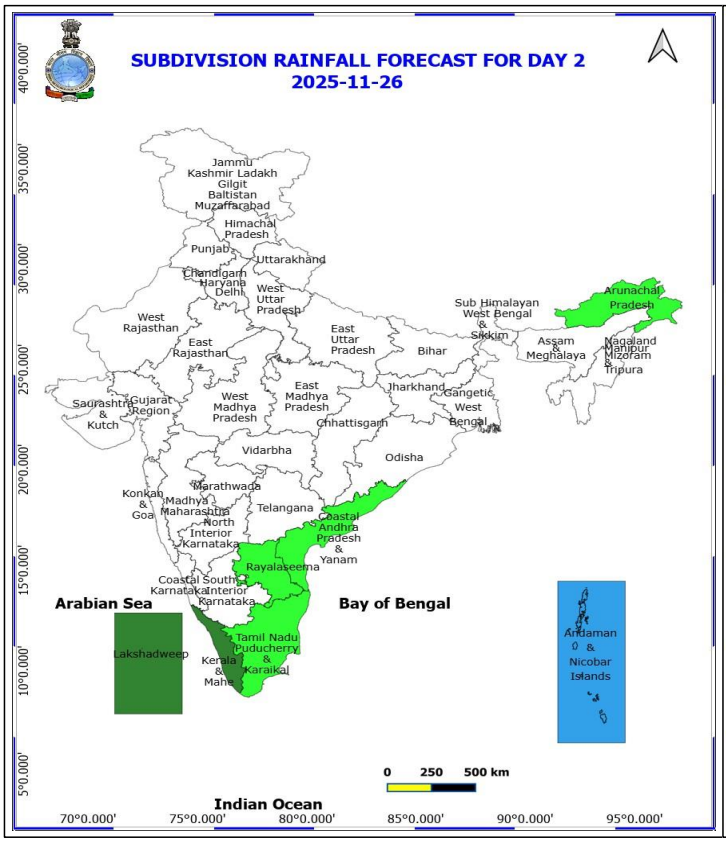
❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.

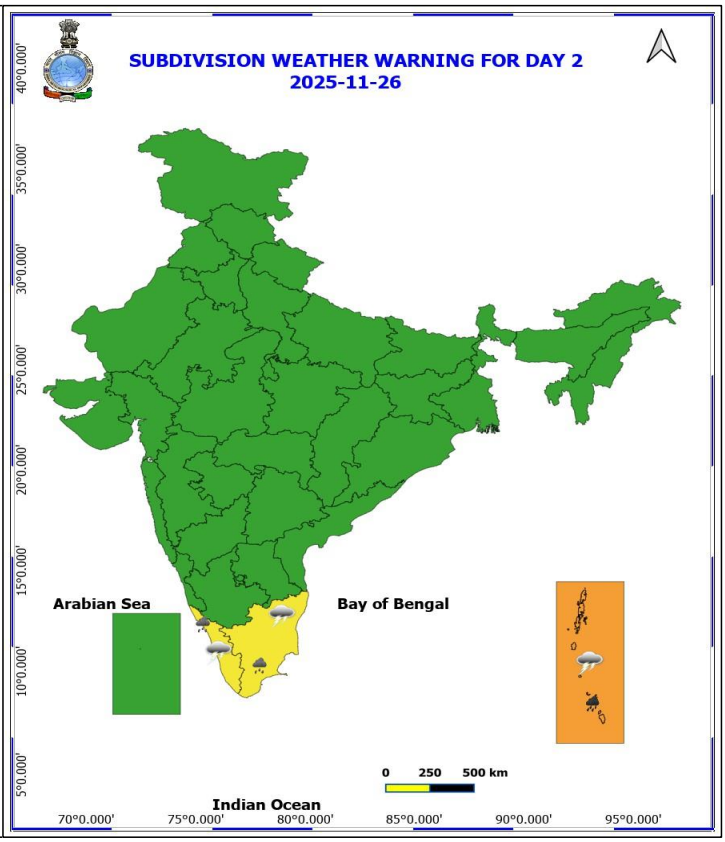
❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands.

❖ **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 along and off Kerala coast, over Lakshadweep, Comorin areas, over Gulf of Mannar, along and off Tamil Nadu and Sri Lanka coasts, over Andaman Sea, over south Bay of Bengal.

❖ Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph will prevail over south Andaman Sea.





26 November (Day 2)

❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands.

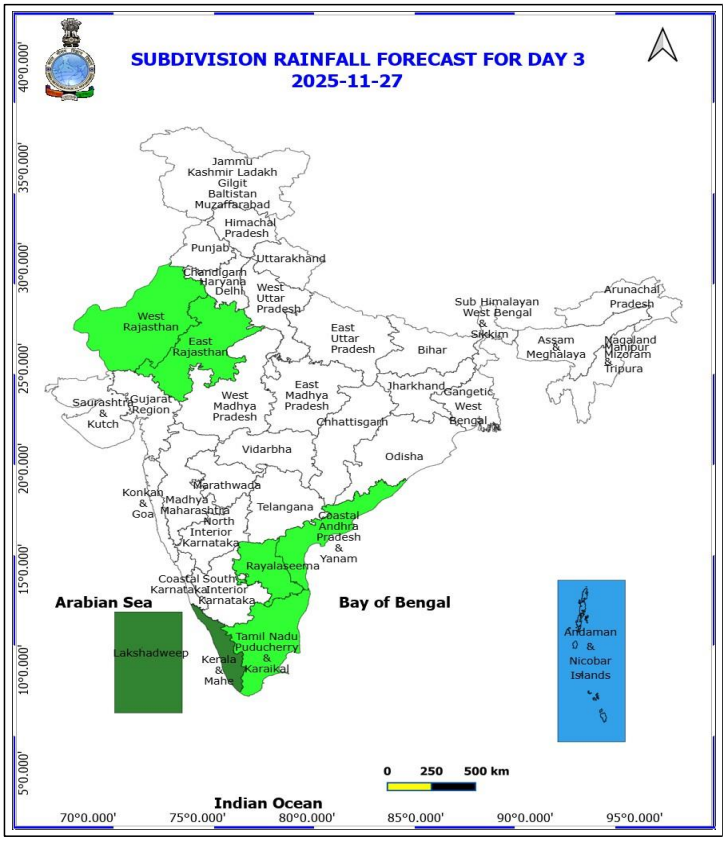
❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.

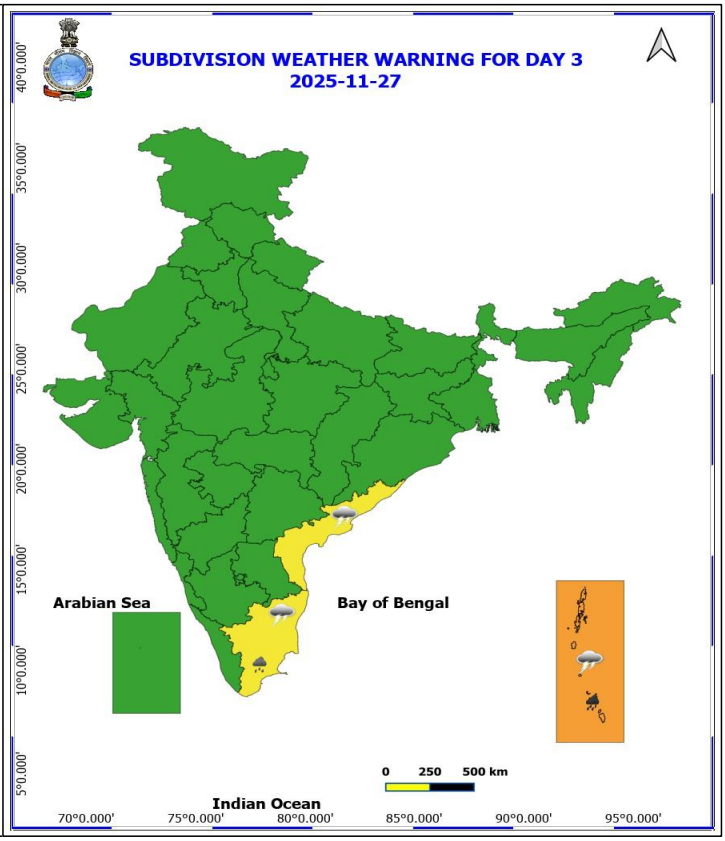
❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Andaman & Nicobar Islands.

❖ **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.





27 November (Day 3)

❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands.

❖ **Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.

❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Andaman & Nicobar Islands.

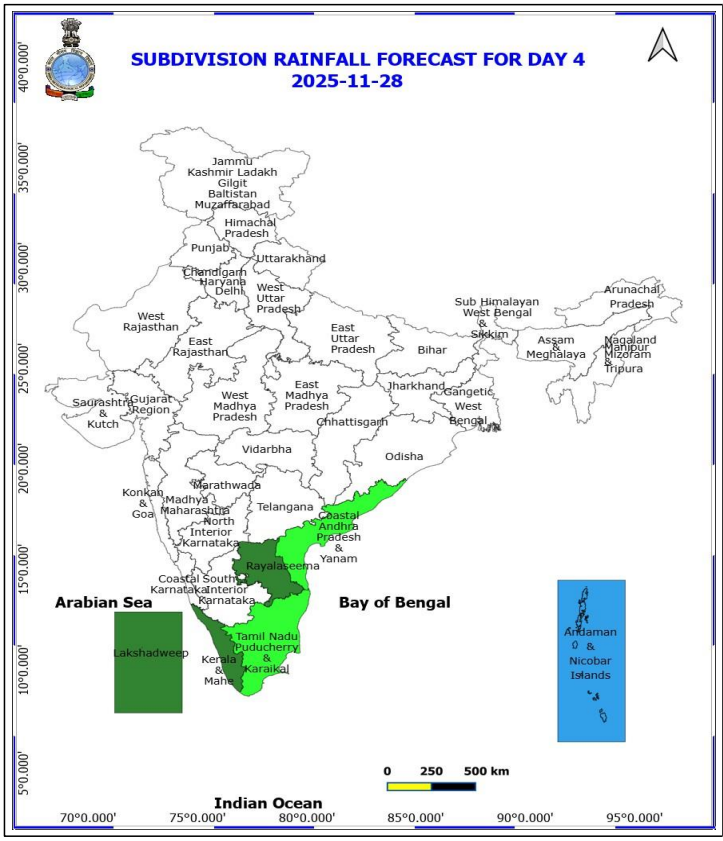
❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Coastal Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.

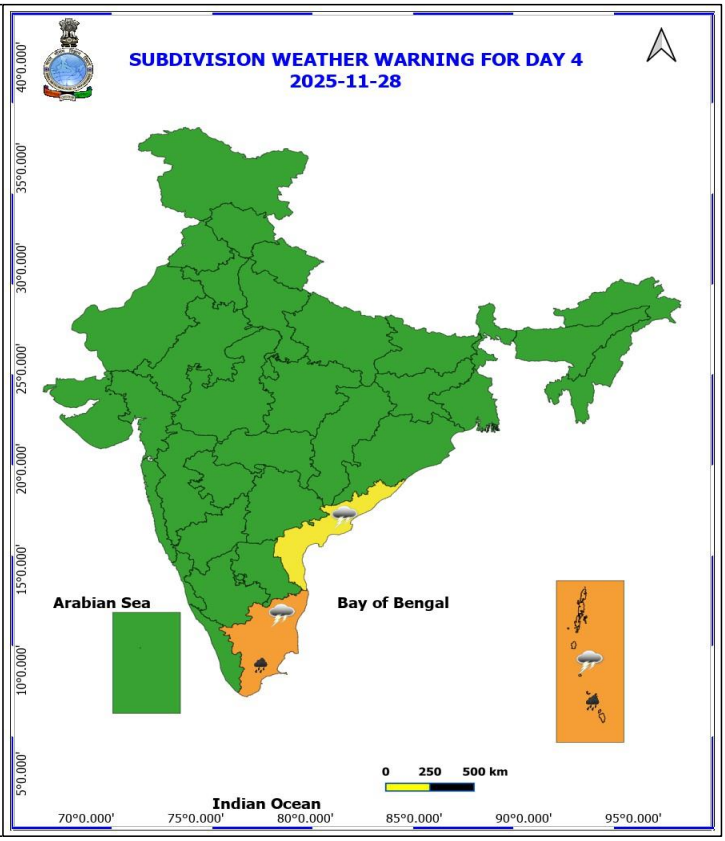
❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph will prevail over Andaman Sea, over south Bay of Bengal & adjoining central Bay of Bengal, along and off Tamil Nadu & Sri Lanka coasts, over Gulf of Mannar & adjoining Comorin area.

❖ 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.





28 November (Day 4)

❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands and Tamil Nadu Puducherry & Karaikal.

❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Andaman & Nicobar Islands.

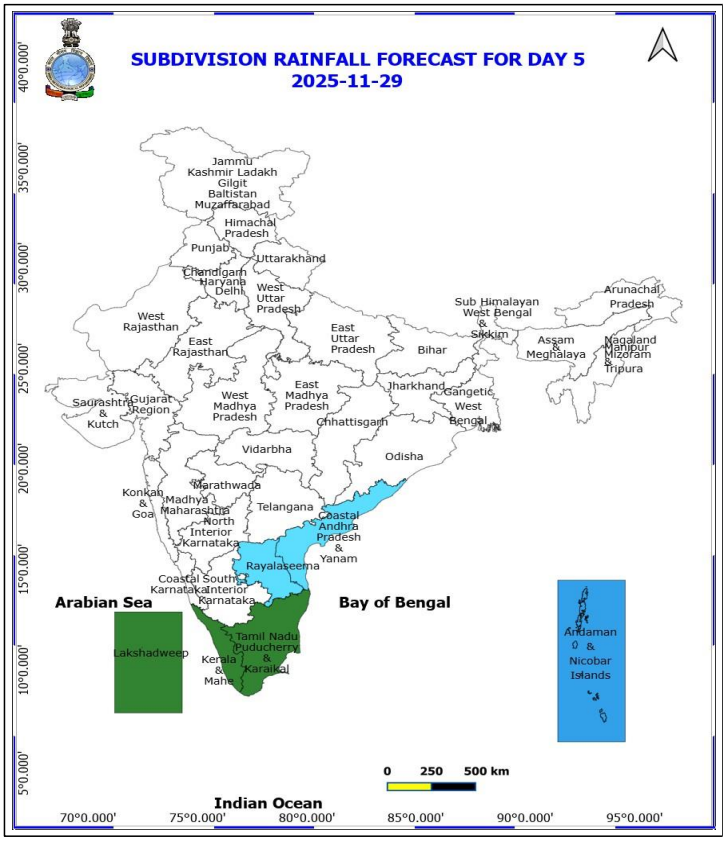
❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Coastal Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.

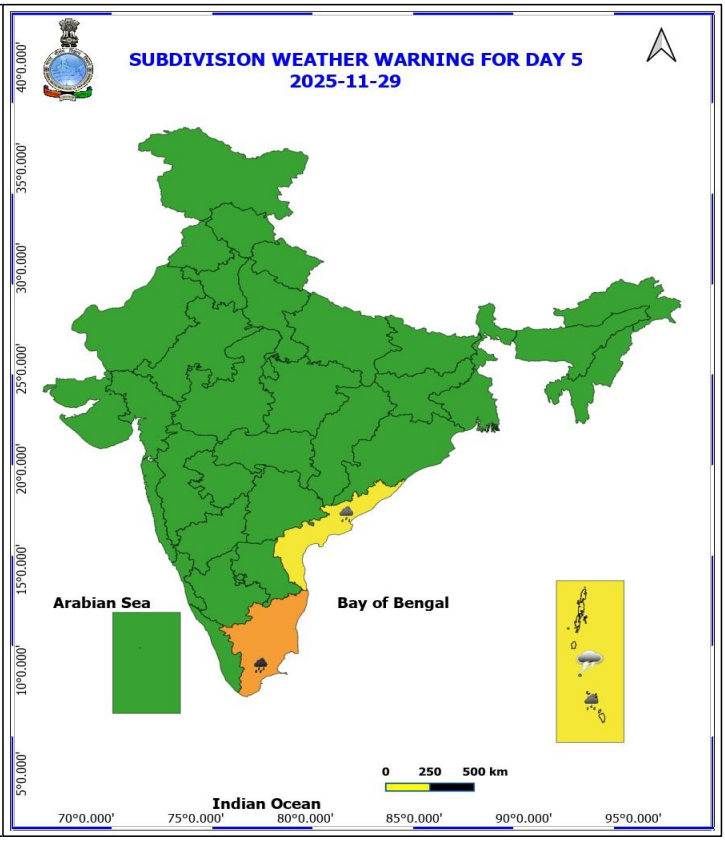
❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph will prevail over Andaman Sea, over south Bay of Bengal & adjoining central Bay of Bengal, along and off Tamil Nadu & Sri Lanka coasts, over Gulf of Mannar & adjoining Comorin area.

❖ 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.





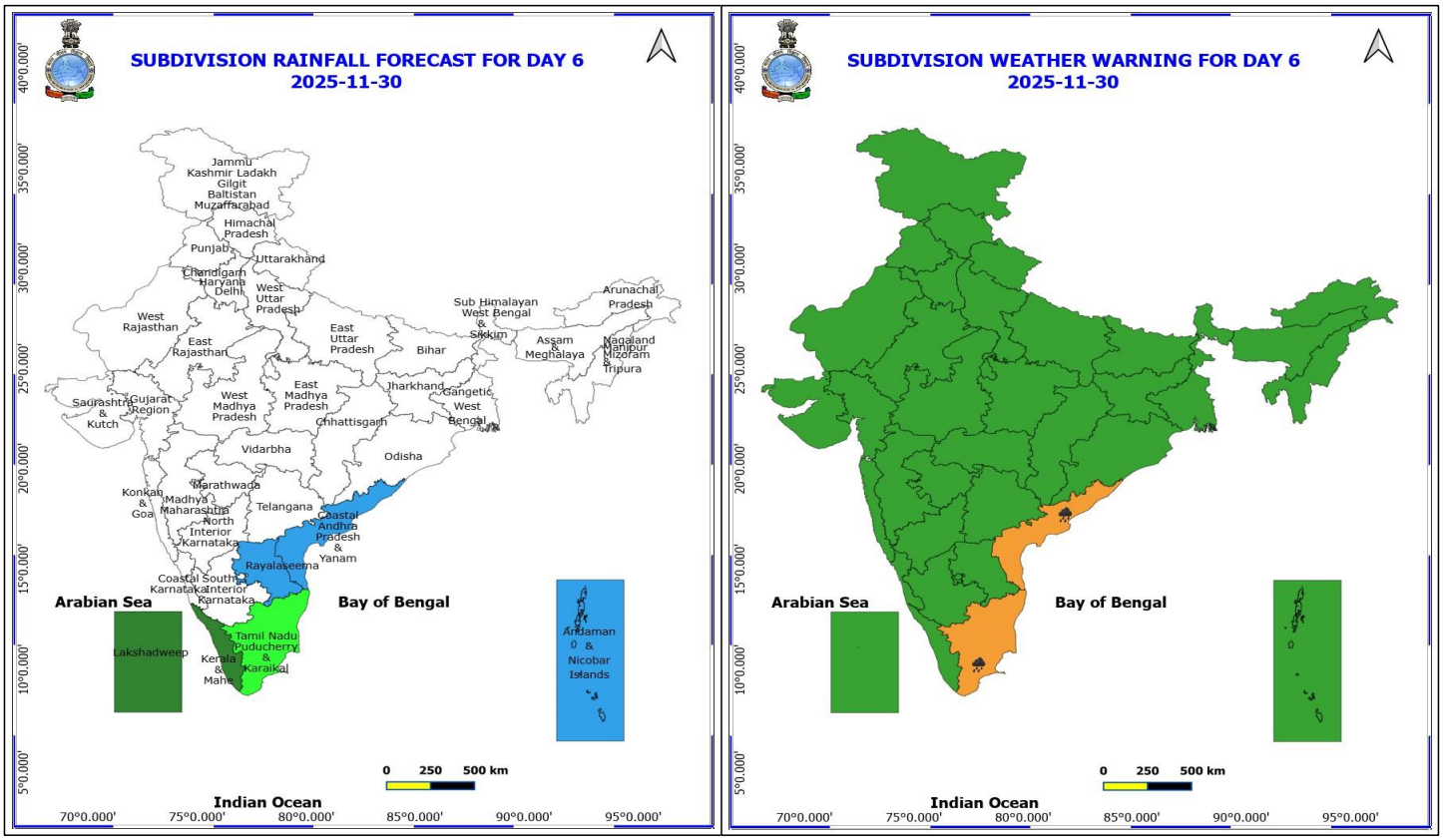
29 November (Day 5)

❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Tamil Nadu Puducherry & Karaikal.

❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands and Coastal Andhra Pradesh.

❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Andaman & Nicobar Islands.

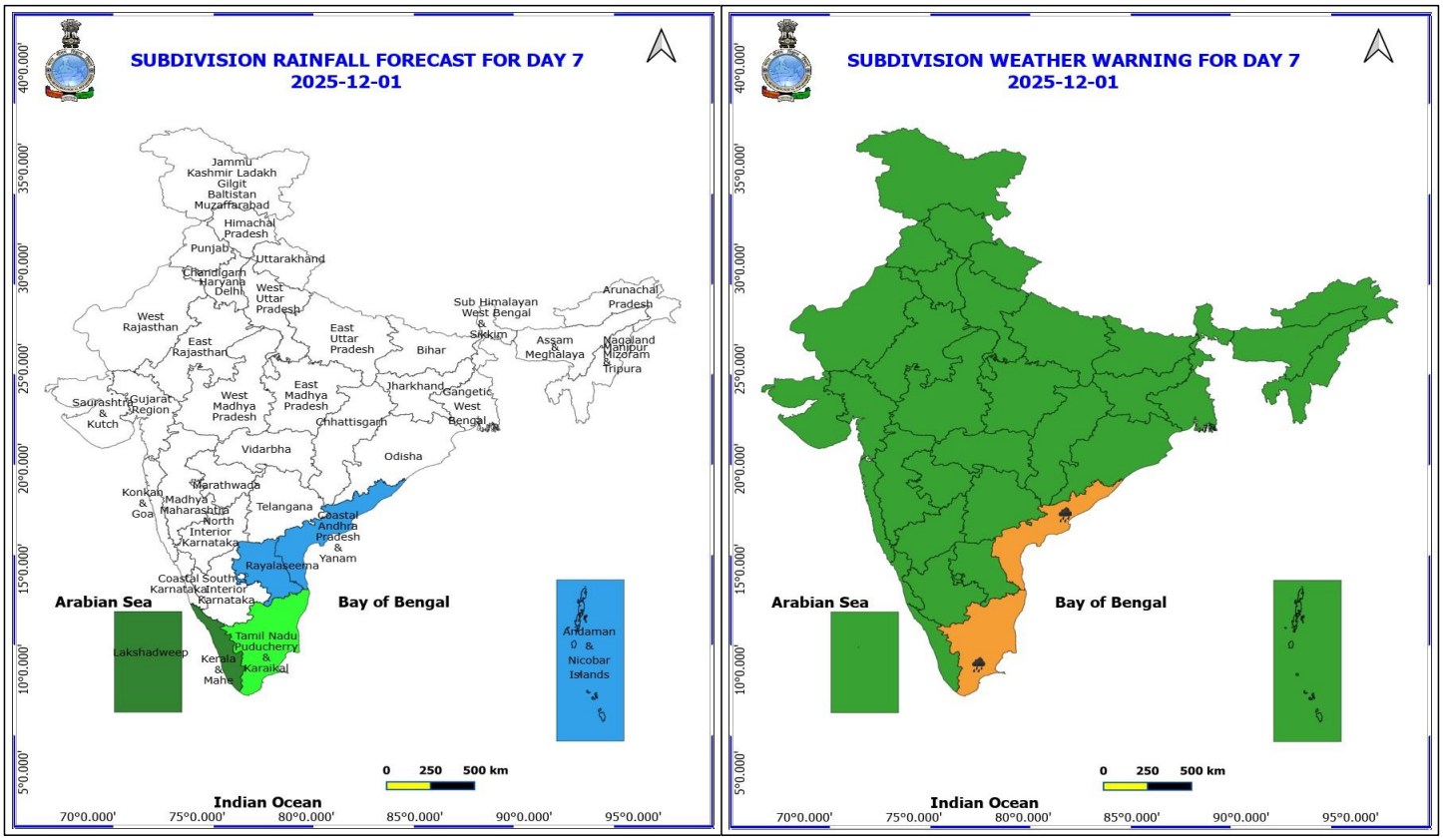
No Fishermen Warning



30 November (Day 6)

❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Coastal Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.

No Fishermen Warning



1 December (Day 7)

❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Coastal Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.

No Fishermen Warning

Table-1

7 Days Rainfall Forecast

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

*Red color warning does not mean "Red Alert" Red color 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)

Fig. 1: Maximum Temperatures Dated 2025-11-24

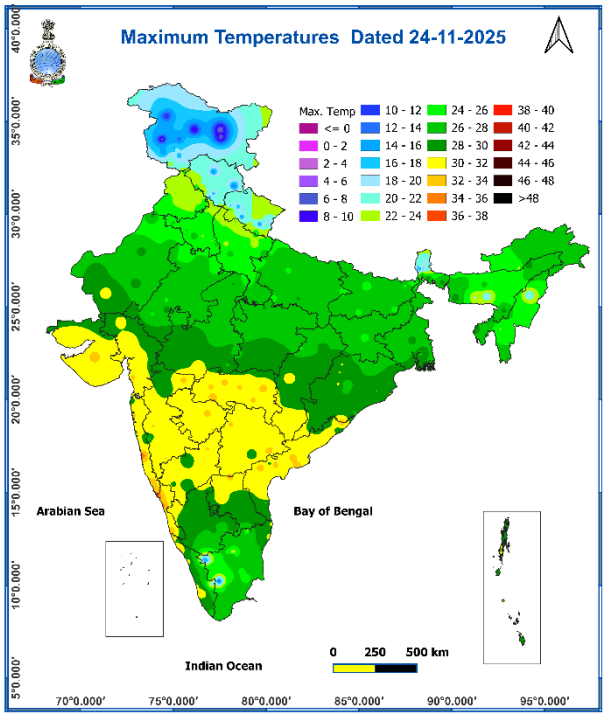


Fig. 2: Departure of Maximum Temp. Dated 2025-11-24

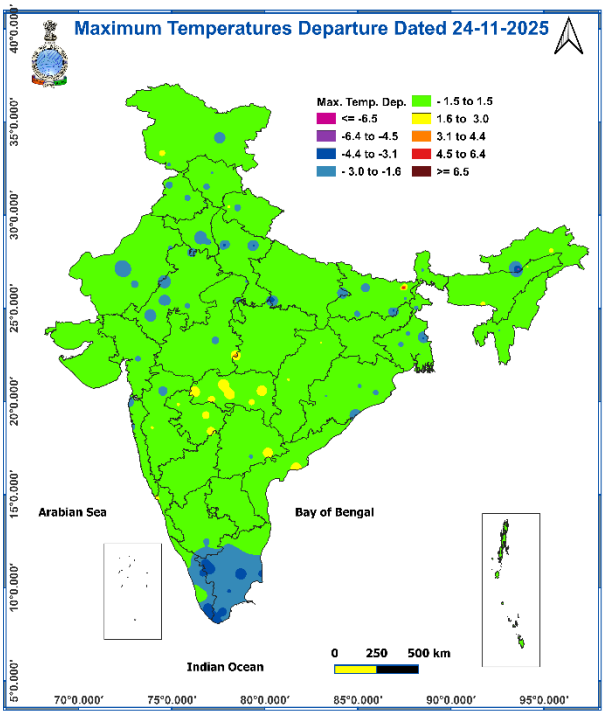


Fig. 3: Minimum Temperatures Dated 2025-11-24

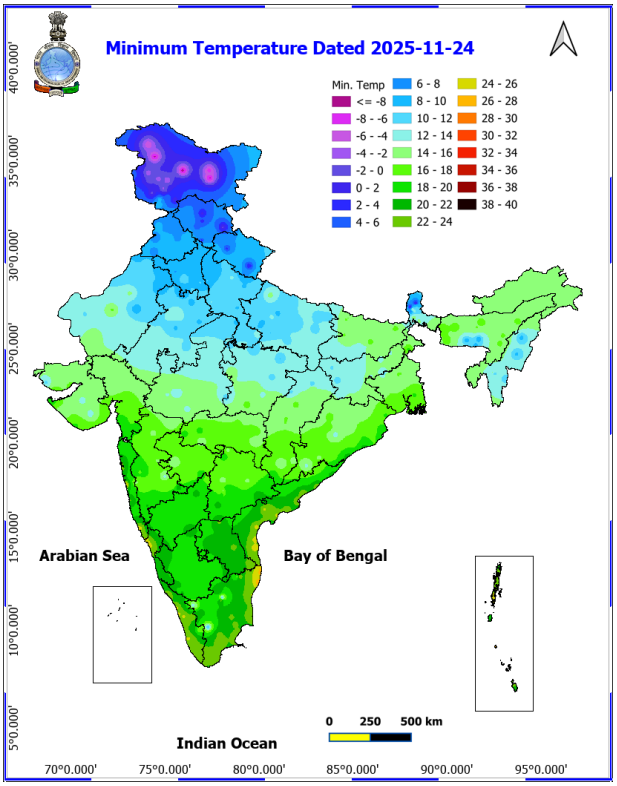
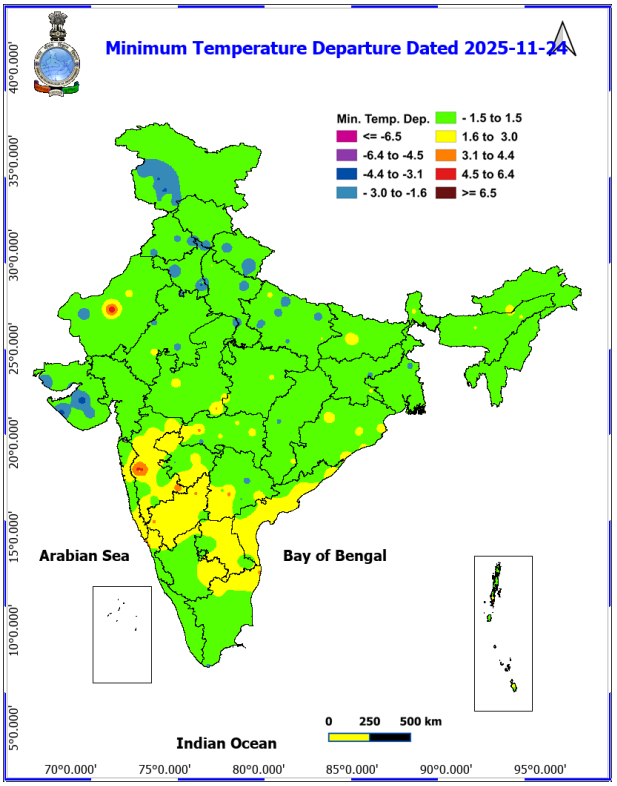
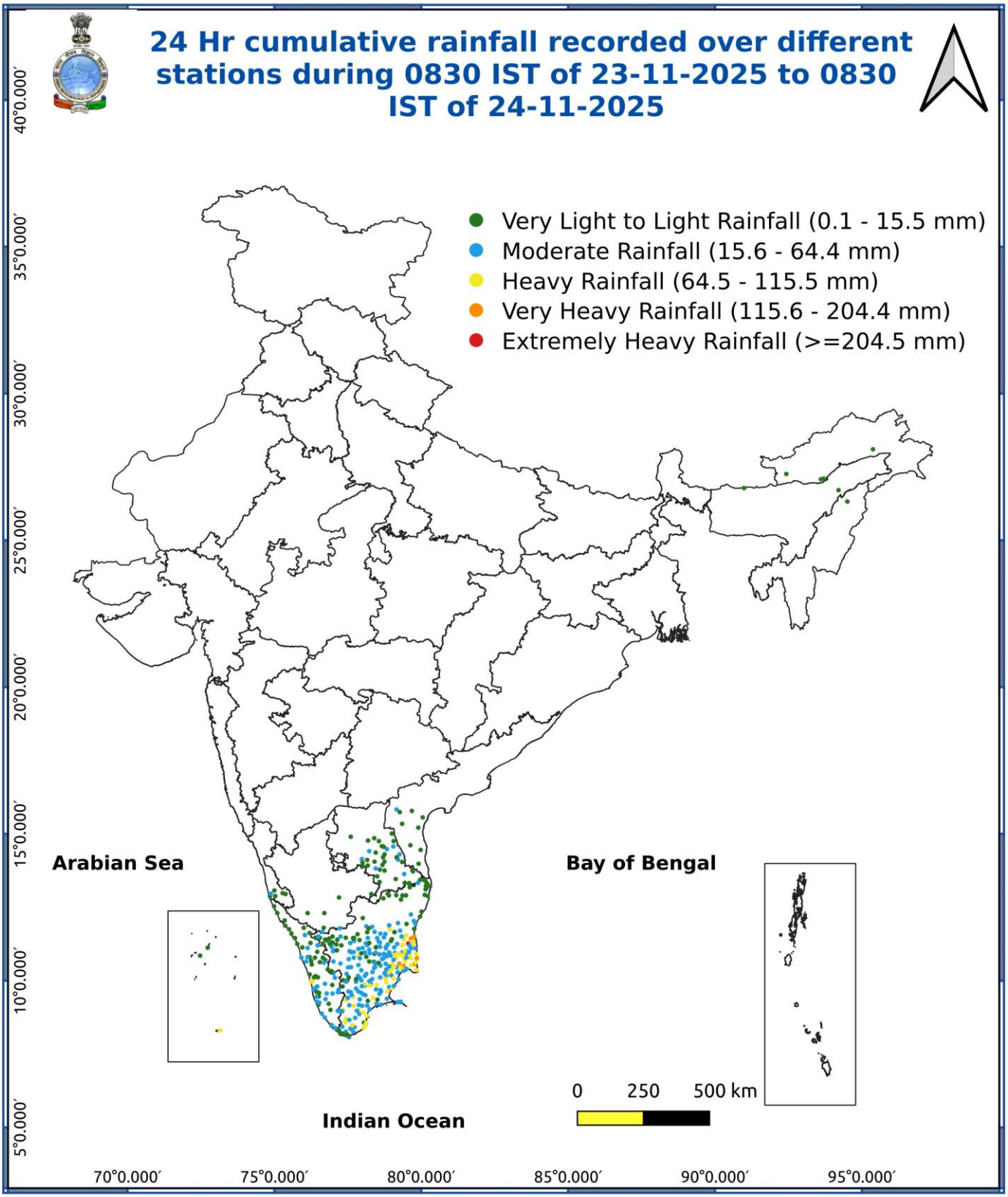


Fig. 4: Departure of Minimum Temp. Dated 2025-11-24



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 23-11-2025 to 0830 IST of 24-11-2025



Impact & Action Suggested due to

- Isolated **very Heavy rainfalllikely overTamil Nadu during 28th-30th, Andaman & Nicobar Islands during 26th-28th, Coastal Andhra Pradesh & Yanam on 30th 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.

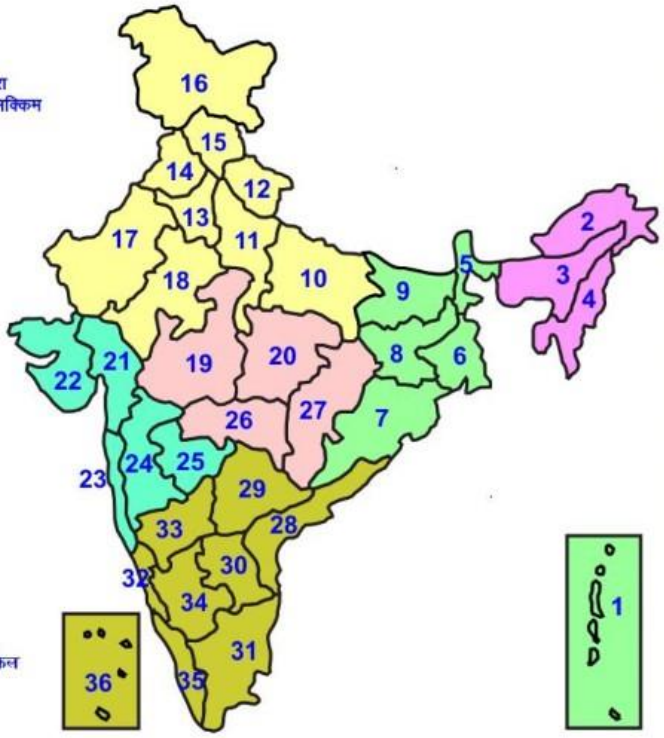
Legends & abbreviations:

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 एंवम् सिक्किम
6 पश्चिम गांगेय बंगाल
7 ओडिसा
8 झारखडं
9 बिहार
10 पूर्वी उत्तर प्रदेश
11 पश्चिम उत्तर प्रदेश
12 उत्तराखंड
13 हरियाणा चंडिगढ़ एंवम् दिल्ली
14 पंजाब
15 हिमाचल प्रदेश
16 जम्मू एवंम कश्मीर एवंम लद्दाख
17 पश्चिम राजस्थान
18 पूर्वी राजस्थान
19 पश्चिम मध्य प्रदेश
20 पूर्वी मध्य प्रदेश
21 गुजरात क्षेत्र
22 सौराष्ट्र एंवम् कच्छ
23 कोंकण एंवम् गोवा
24 मध्य महाराष्ट्र
25 मराठावाडा
26 विदर्भ
27 छत्तीसगढ़
28 तटीय आंध्र प्रदेश एवं यनम
29 तेलंगाना
30 रायलसीमा
31 तमिलनाडु ,पुदुचेरी एवंम कराईकल
32 तटिय कर्नाटक
33 आंतरिक उत्तरी कर्नाटक
34 आंतरिक दक्षिणी कर्नाटक
35 केरल एवंम 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 Rajsthan
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 Widespred (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
Hailstrom
Dust Strom
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"
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

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

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 ≥40° C for plains and ≥30° 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 ≥6.5° C

(b). Based on Actual maximum temperature

- **Heat Wave:** When actual maximum temperature ≥45°C.
- **Severe Heat Wave:** When actual maximum temperature ≥47°C

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°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 °C.

Cold Wave

When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C

(b) Based on actual Minimum Temperature (for Plains only)

- **Cold Wave :** When Minimum Temperature is ≤ 4.0 °C
- **Severe Cold Wave:** When Minimum Temperature is ≤ 2.0 °C

(c) For Coastal Stations

When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C

Cold Day

When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility < 1km

- **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 ≤4°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)