



2025-11-21

Time of Issue: 13:17:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings:

- Light to moderate rainfall/thunderstorm at many/some places with **isolated heavy rainfall** very likely over Tamil Nadu during 21st -24th; over Kerala & Mahe during 21st – 23rd; over Andaman & Nicobar Islands on 21st, 22nd and 25th November; with isolated **very Heavy rainfall** over Andaman & Nicobar Islands on 23rd & 24th November.
- Thunderstorm with lightning very likely over Tamil Nadu, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Rayalaseema during 21st -24th with gusty wind speeds reaching 40-50 kmph; over Andaman & Nicobar Islands with gusty wind speeds reaching 40-50 kmph on 21st, 22nd & 25th and with gusty wind speed reaching 50-60 kmph on 23rd & 24th November.

Forecast of temperature and cold wave and cold day warnings:

- Gradual rise in minimum temperature likely by 2-3^o C over West & Central India during next 3 days and no large change thereafter.
- Gradual fall in minimum temperature likely by 2-4^o C over northwest India during the week.
- No large change in the minimum temperature likely over rest part of the country.
- **Cold wave conditions** at isolated parts over West Madhya Pradesh on 22nd & 23rd November.
- **Shallow to moderate fog** over northeast India during the week.

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

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Main Weather Observations:

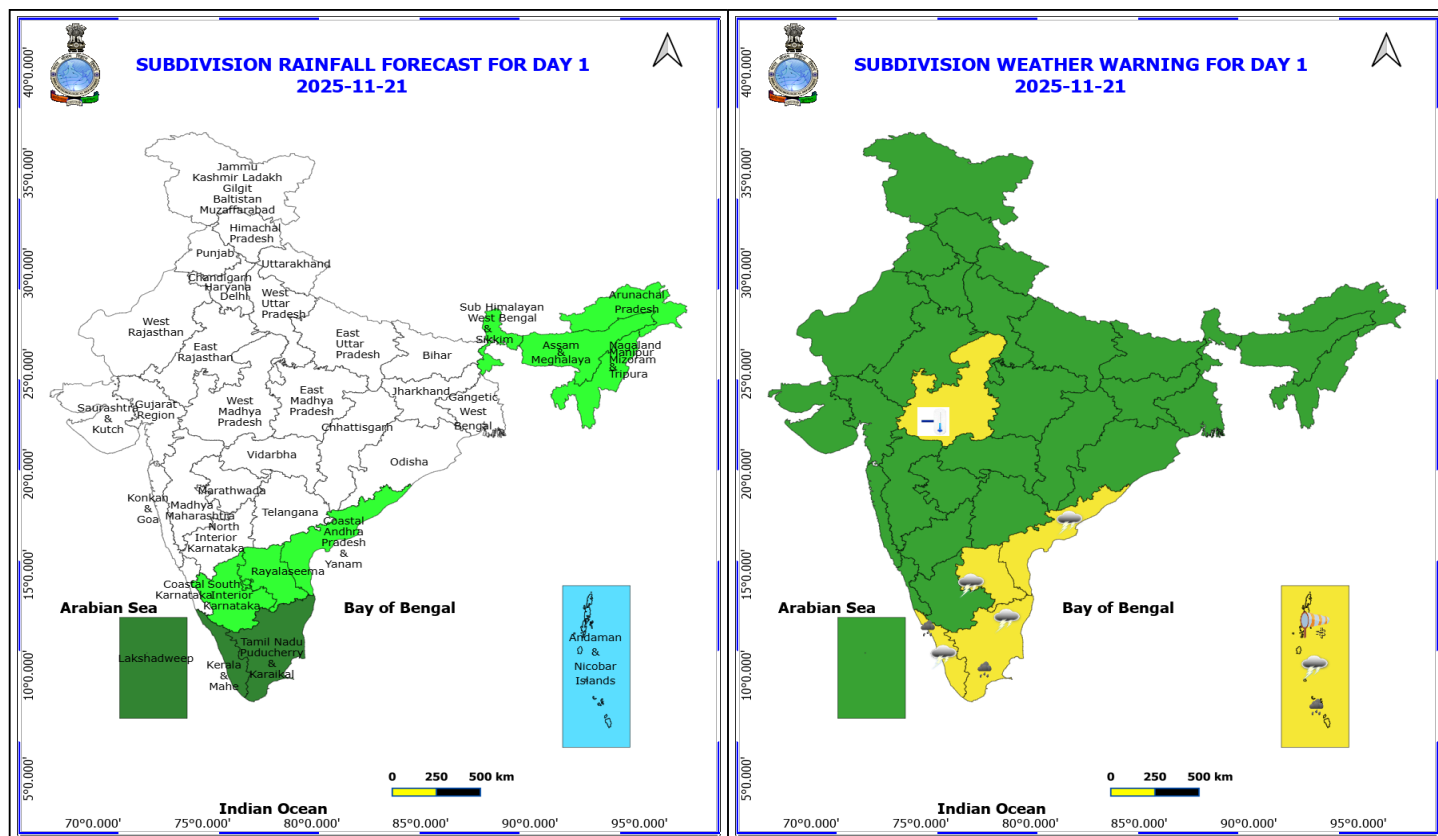
- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at many places** over Andaman & Nicobar Islands and Lakshadweep; **at isolated places** over Arunachal Pradesh, Assam & Meghalaya, Uttarakhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Andaman & Nicobar Islands**: Car Nicobar (dist Nicobar), Iaf Carnicobar (dist Nicobar) 6 Each; **Tamil Nadu, Puducherry & Karaikal**: Karaikal (dist Karaikal), Tiruvarur (dist Tiruvarur) 5 Each; Nagapattinam (dist Nagapattinam), Tiruvarur AWS (dist Tiruvarur) 4 Each; Thalaigayner (dist Nagapattinam) 3; Sirkali (dist Mayiladuthurai), Tirupoondi (dist Nagapattinam), Velankanni (dist Nagapattinam) 2 Each; **Kerala & Mahe**: Neryamangalam ARG (dist Ernakulam) 4; Thodupuzha (dist Idukki) 2; **Coastal Andhra Pradesh & Yanam**: Kavalali (dist Spsr Nellore), Nellore (dist Spsr Nellore), Udayagiri (dist Spsr Nellore) 2 Each; **Arunachal Pradesh**: Anini AWS (dist Dibang Valley) 2.
- ❖ **Fog Condition Observed (at 0830 hours of today)**: **Dense fog conditions**: at isolated places over Himachal Pradesh **Shallow fog conditions**: at a few places over Punjab, at isolated places over East Uttar Pradesh, West Uttar Pradesh, Haryana Chandigarh & Delhi, Himachal Pradesh, West Madhya Pradesh and East Madhya Pradesh
- ❖ **Visibility reported (at 0830 hours of today)**: West Uttar Pradesh: Bulandshahr (dist Bulandshahr), Aligarh (dist Aligarh) 500.0; Gangetic West Bengal: Suri (dist Birbhum); Odisha: Sundargarh (dist Sundargarh), Bolangir, Titlagarh (dist Balangir), Koraput (dist Koraput), Chhatrapur (dist Ganjam), Boudh (dist Boudh), Malkangiri-obs (dist Malkangiri), Paralakhemundi-obs (dist Gajapati) Each; Himachal Pradesh: Sundernagar (dist Mandi) 50.0, Mandi (dist Mandi) 500.0; West Madhya Pradesh: Hoshangabad (dist Narmadapuram) 500.0; East Uttar Pradesh: Varanasi (babatpur) AP (dist Varanasi), Fursatganj (dist Amethi), Kanpur Airforce (dist Kanpur Nagar) 500.0 Each; Punjab: Amritsar (rajasansi) AP (dist Amritsar), Ludhiana (dist Ludhiana) 500.0 Each; Haryana Chandigarh & Delhi: New Delhi (safdarjung) (dist South West Delhi) 500.0; East Madhya Pradesh: Rewa (dist Rewa) 500.0;.
- ❖ **Minimum Temperature Departures (as on 21-11-2025)**: below normal(-1.6°C to -3.0°C) at few places over Marathwada and Rayalaseema. **The lowest minimum temperature of 8.0°C is reported at Rajgarh (West Madhya Pradesh) over the plains of India.**
- ❖ **Maximum Temperature Departures (as on 20-11-2025)**: The highest maximum temperature of 35.8°C is reported at KARWAR (KARNATAKA).

Meteorological Analysis (Based on 0830 hours IST)

- The **upper air cyclonic circulation** over central parts of Strait of Malacca, extending upto 5.8 km above mean sea level persisted over the same region at 0830 hours IST of today, the 21st November. Under its influence, a **Low-Pressure area** is likely to form over South Andaman Sea on 22nd November 2025. Thereafter, it is very likely to move west-northwestwards and intensify into depression over southeast Bay of Bengal around 24th November 2025. Continuing to move west-northwestwards, it is very likely to intensify further over southwest Bay of Bengal during subsequent 48 hours.
- An **upper air cyclonic circulation** lies over east Bangladesh & neighbourhood and extends upto 1.5 km above mean sea level.
- 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 Tamil Nadu, Kerala and Islands.
- Isolated to Scattered rainfall activity over Coastal Andhra Pradesh, Coastal Karnataka and South Interior Karnataka.



21 November (Day 1)

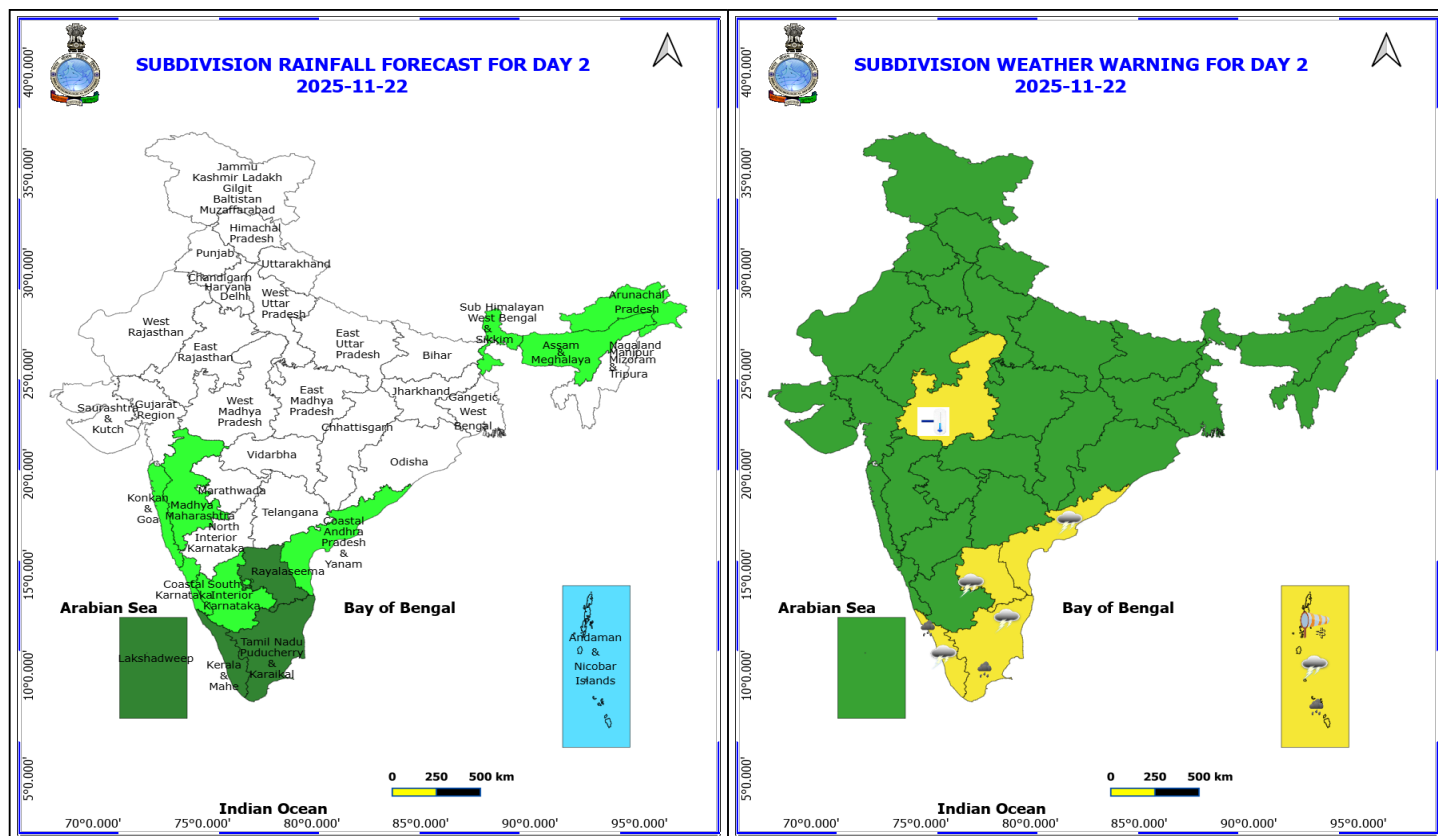
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Strong Surface Winds** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Cold wave conditions** very likely at isolated places over West Madhya Pradesh.
- **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** will prevail over Andaman Sea, adjoining parts of southeast, eastcentral Bay of Bengal.

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22 November (Day 2)

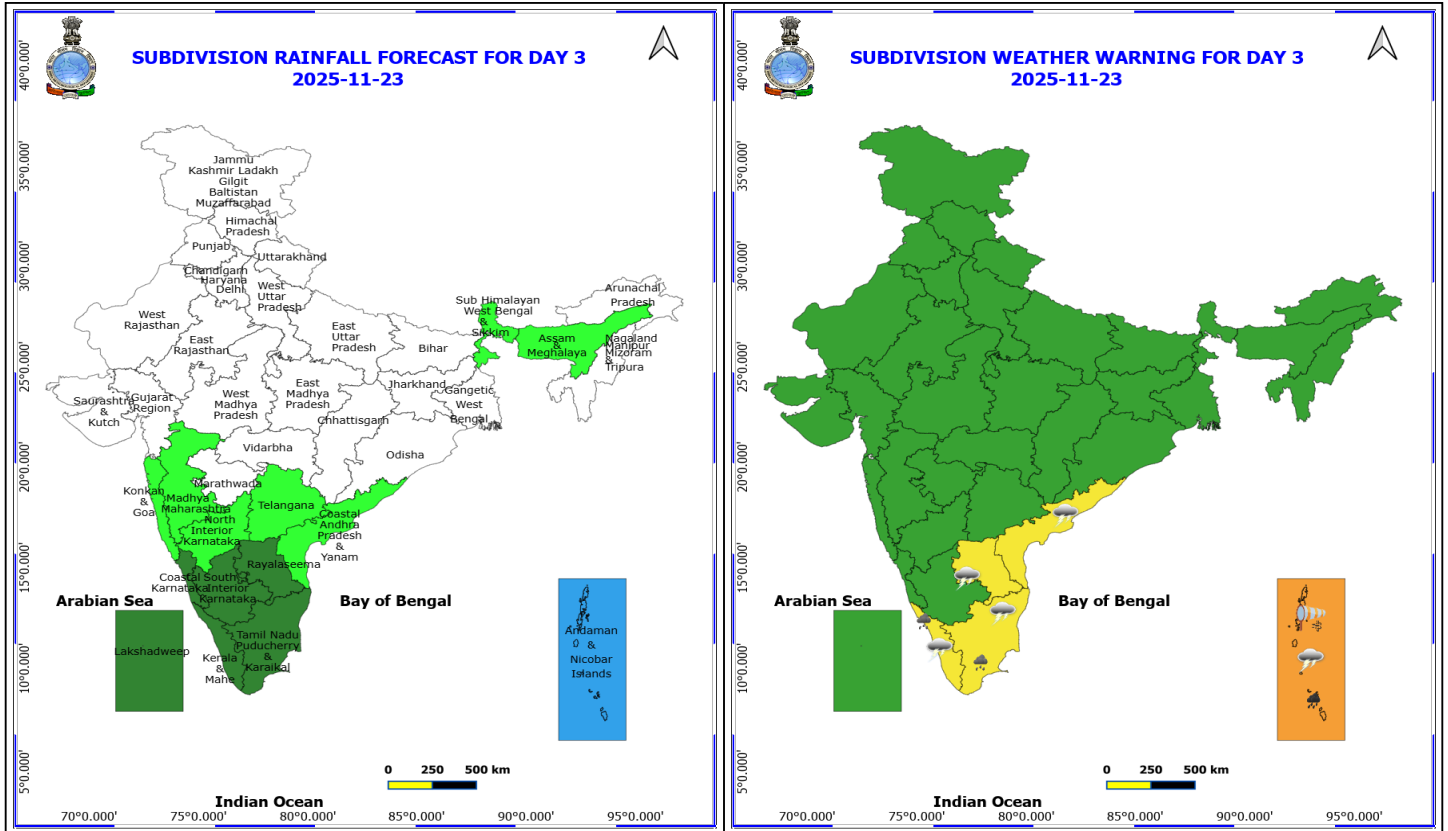
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Strong Surface Winds** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Cold wave conditions** very likely at isolated places over West Madhya Pradesh.
- **Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea, adjoining, many parts of southeast Bay of Bengal.
- **Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** will prevail over south Andaman Sea.

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23 November (Day 3)

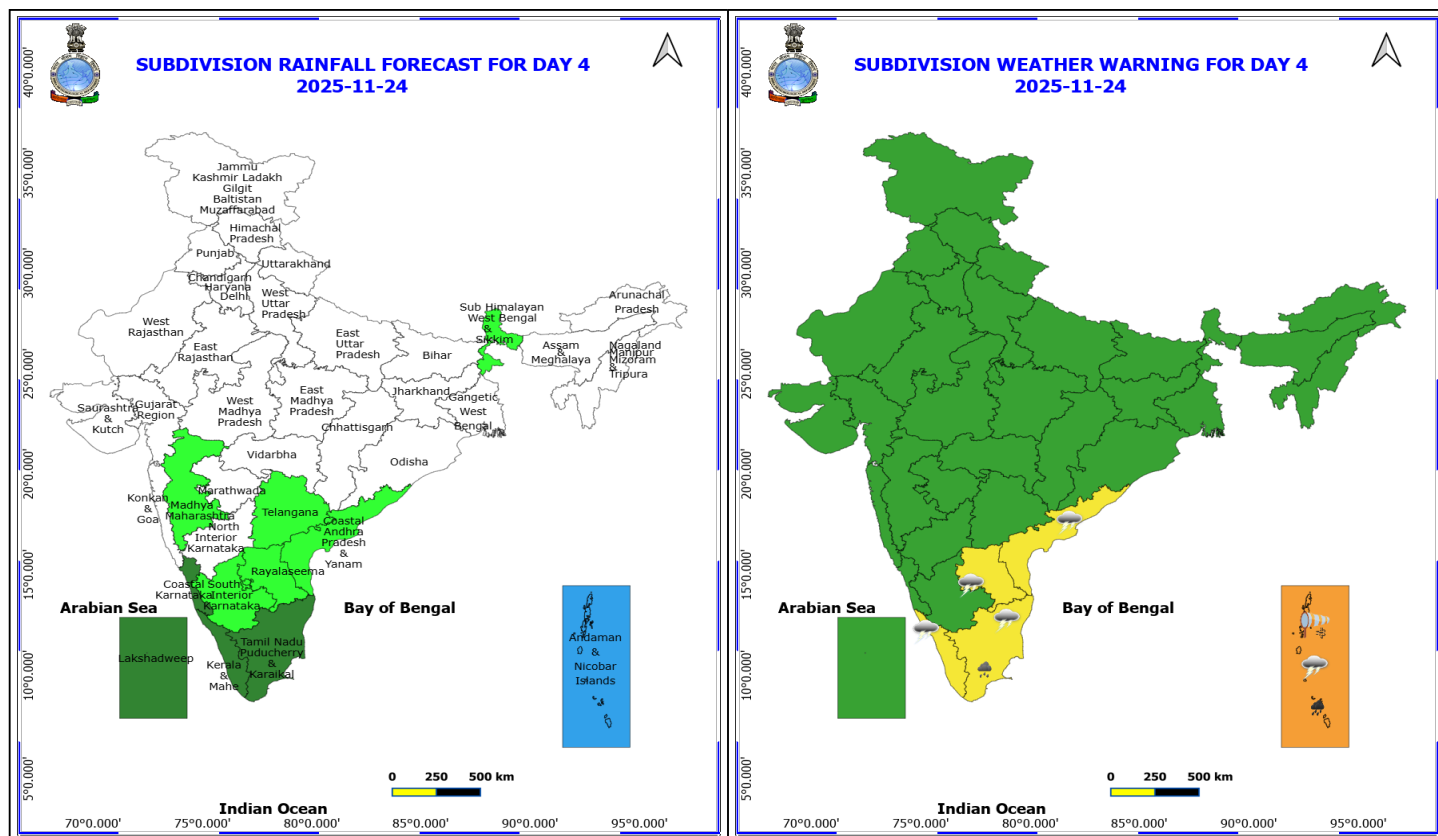
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Strong Surface Winds** very likely at isolated places over Andaman & Nicobar Islands.
- **Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea, over southeast & adjoining, some parts of southwest Bay of Bengal.
- **Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** will prevail over south Andaman Sea & adjoining southeast Bay of Bengal.

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24 November (Day 4)

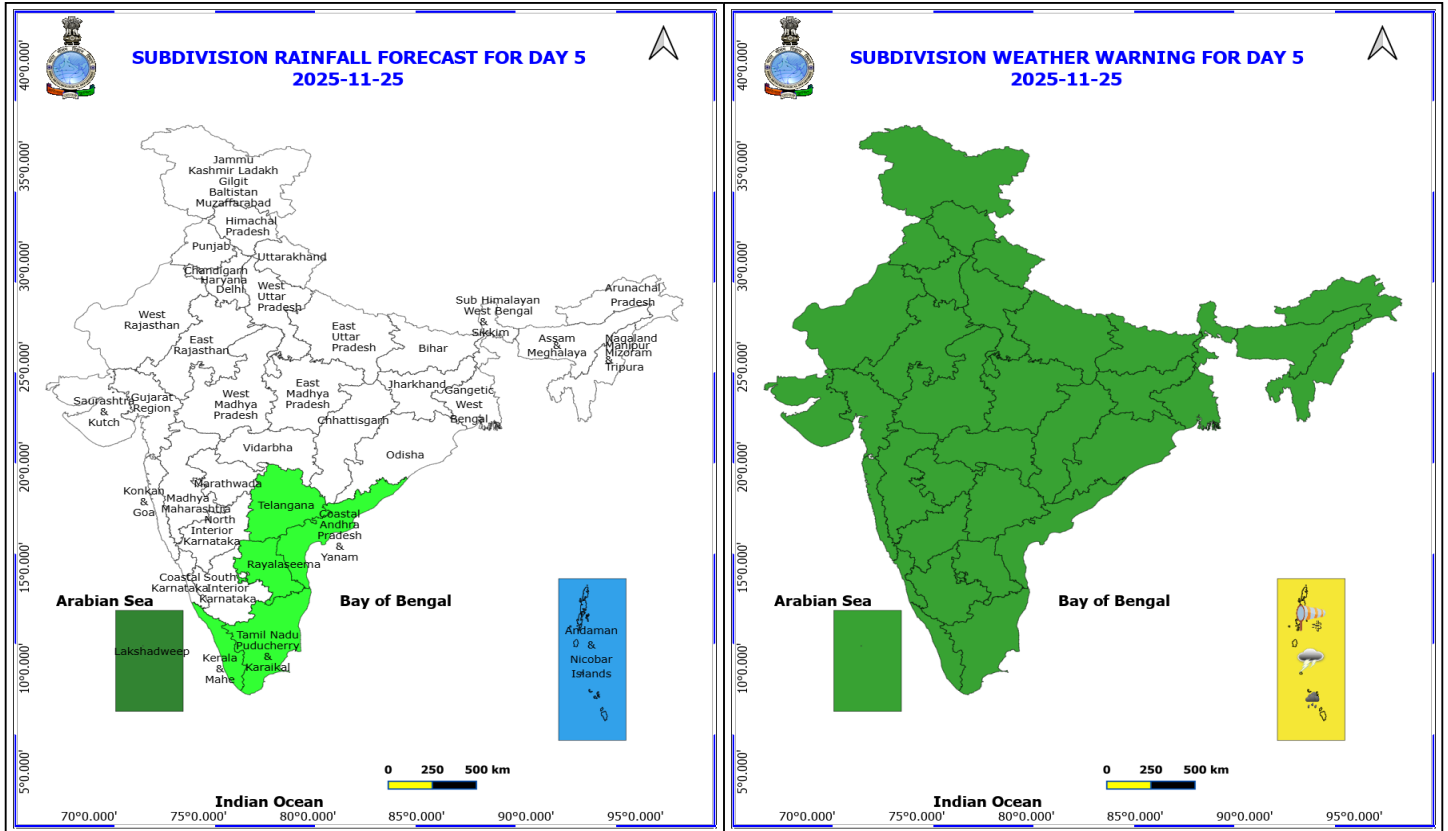
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Heavy Rainfall** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Strong Surface Winds** likely at isolated places over Andaman & Nicobar Islands.
- **Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea, over southeast & adjoining, many parts of southwest Bay of Bengal.
- **Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** will prevail over south Andaman Sea & adjoining, many parts of southeast Bay of Bengal.

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25 November (Day 5)

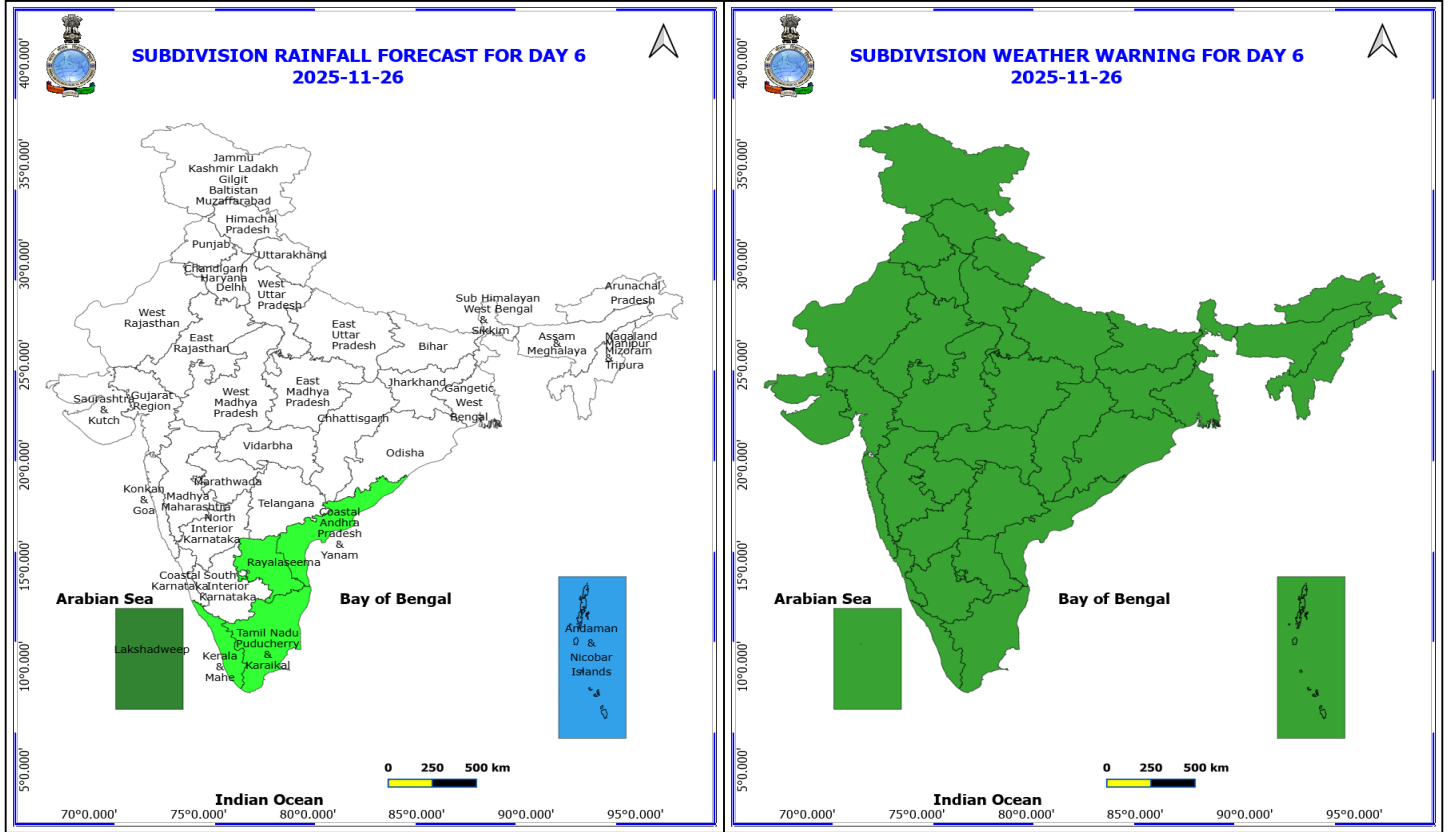
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Strong Surface Winds** likely at isolated places over Andaman & Nicobar Islands.
- **Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea, over south Bay of Bengal & adjoining central Bay of Bengal, Gulf of Mannar & adjoining Comorin area.
- **Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** will prevail over central parts of south Bay of Bengal.

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26 November (Day 6)

No Warning

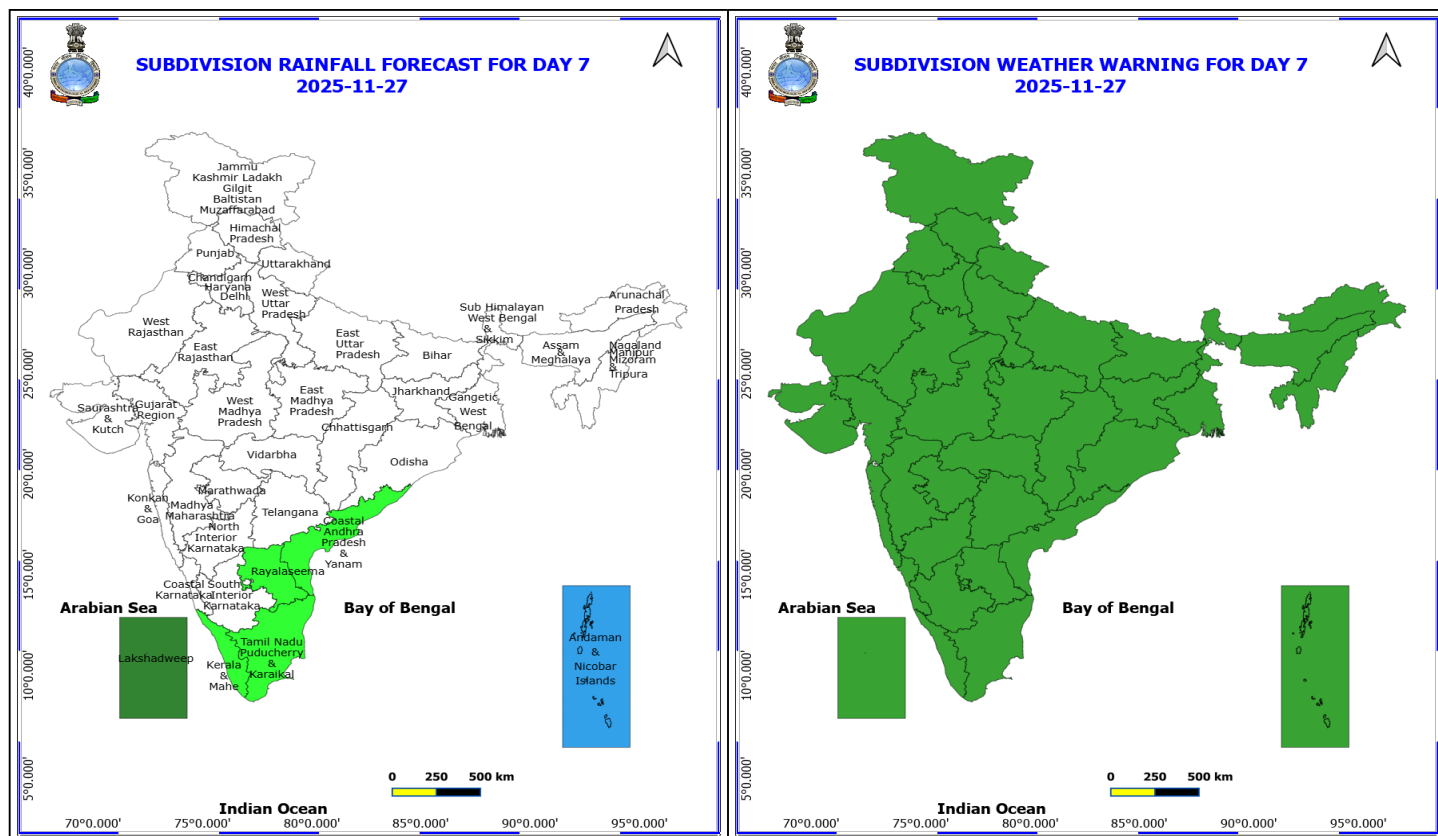
No Fishermen Warning

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27 November (Day 7)

No Warning

No Fishermen Warning

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	21- Nov	22- Nov	23- Nov	24- Nov	25- Nov	26- Nov	27- Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
4	N. M. M. & T.	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	ISOL	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	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	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	ISOL	ISOL	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	ISOL	ISOL	ISOL	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	ISOL	ISOL	ISOL
29	TELANGANA	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
30	RAYALASEEMA	ISOL	SCT	SCT	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	SCT	SCT	SCT	SCT	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	DRY	ISOL	SCT	SCT	DRY	DRY	DRY
33	NORTH INTERIOR KARNATAKA	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	SCT	ISOL	DRY	DRY	DRY
35	KERALA	SCT	SCT	SCT	SCT	ISOL	ISOL	ISOL
36	LAKSHDWEEP	SCT	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 2025-11-20

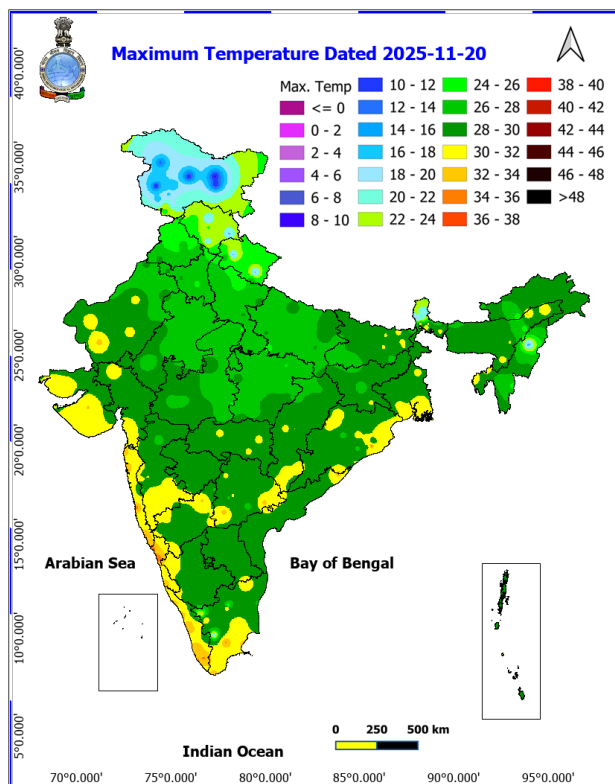


Fig. 2: Departure of Maximum Temp. Dated 2025-11-20

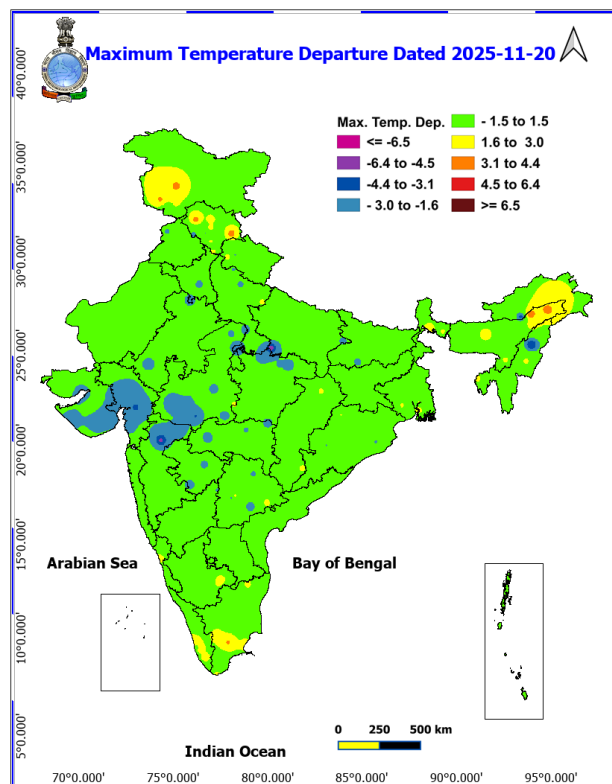


Fig. 3: Minimum Temperatures Dated 2025-11-21

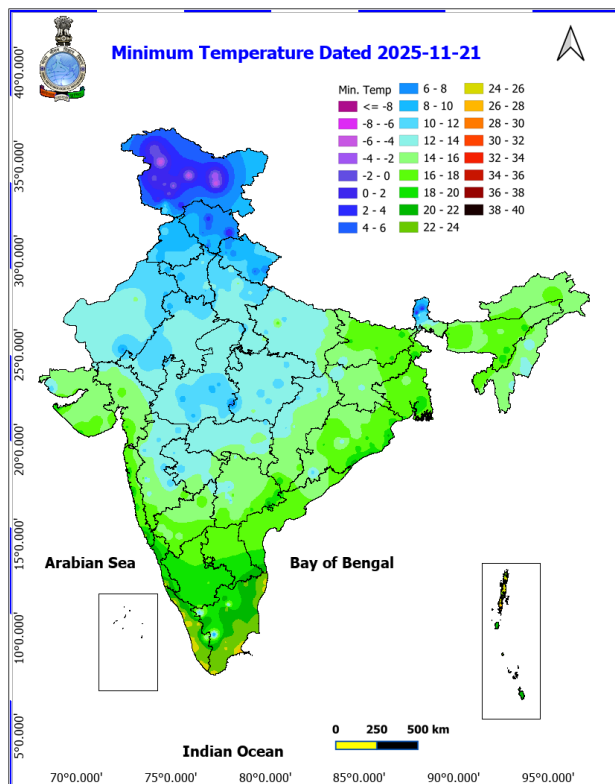
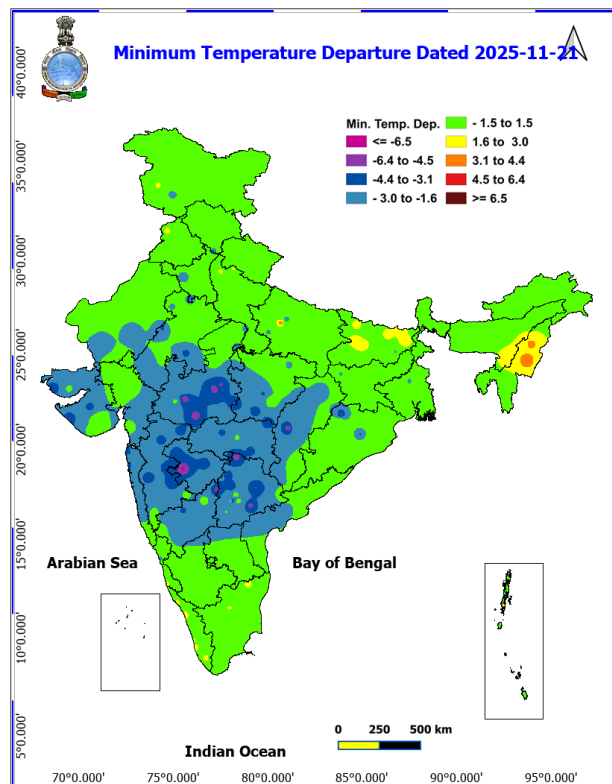
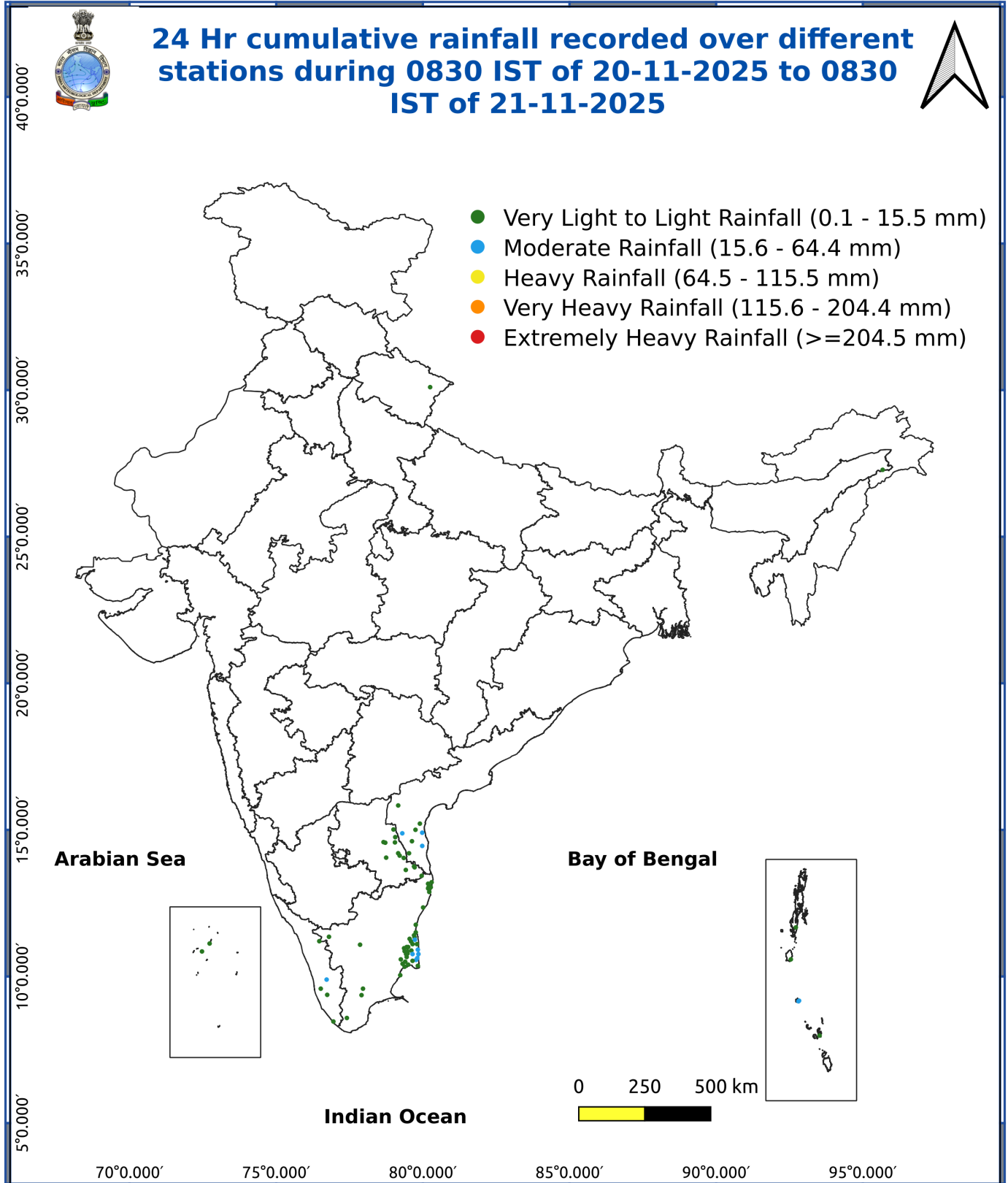


Fig. 4: Departure of Minimum Temp. Dated 2025-11-21





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Impact & Action Suggested due to

- Isolated **very Heavy rainfall likely** over Andaman & Nicobar Islands on 23rd & 24th 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

- In **Tamil Nadu**, keep the harvested produce of rice and groundnut crops in safe places. Drain out excess rain water from fields of rice, sugarcane, cotton, black gram, maize and vegetables and plantations of coconut, banana, cinnamon and black pepper. Provide support to banana plants with wooden poles to prevent them from falling.
- In **Kerala**, drain out excess rain water from fields of rice, vegetables and plantations of banana, coconut, cardamom and black pepper. Carry out propping in banana plants to prevent falling due to heavy rainfall and strong winds.
- In **Andaman and Nicobar Islands**, store the harvested produce of rice in well-covered elevated places to prevent moisture damage. Harvest matured vegetables to avoid damage and provide support to banana, papaya and other tall crops with stakes to prevent lodging. Avoid sowing of pulses and oilseed crops during heavy rainfall. Protect young seedlings in nursery 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.

Agromet advisories for likely impact of Cold Waves / Low Temperatures

- In **Madhya Pradesh, Madhya Maharashtra and Telangana**, apply light and frequent irrigation to the standing

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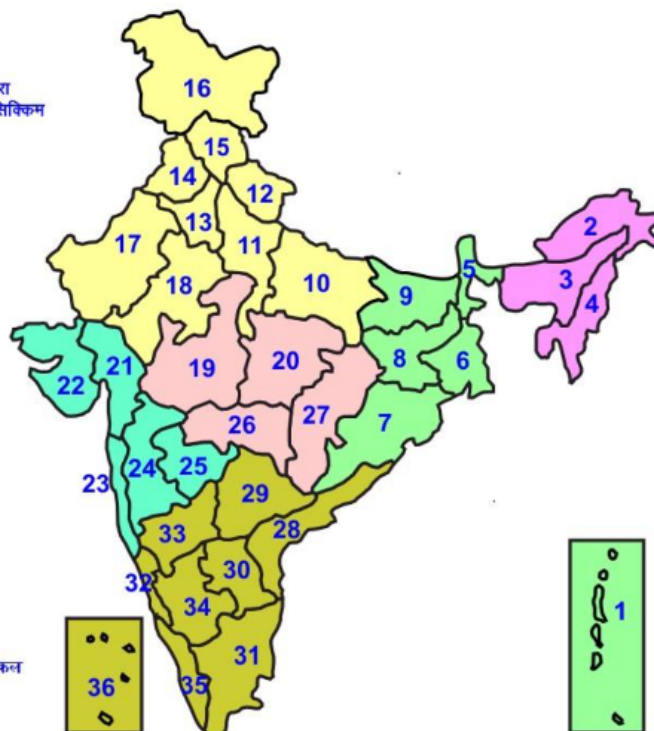
crops in the evening to protect the crops from low temperature stress or cold injuries. Use mulching and cover vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature. Cover banana bunches with 6% perforated plastic bags for protection from low temperatures.

Livestock / Poultry

- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

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 चंडीगढ़ 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 मराठावाड़ा
- 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. Marathwada
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

Thunderstorm & Lightning

Strong surface winds

Cold Wave

Hot & Humid

Very Heavy Rain

Hailstorm

Heat Wave

Cold Day

Extremely Heavy Rain

Dust Storm

Hot Day

Ground Frost

Heavy Snow

Dust Raising Winds

Warm Night

FOG Fog

*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

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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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