राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

2026-11-09
Time of Issue: 13:33:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Systems, Forecast and Warnings

Northwest India:

- **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 10th-11th November and during 14th-15th November; Himachal Pradesh during 10th-15th November; Uttarakhand on 9th November and during 12th-13th November.
- **Isolated to Scattered** rainfall likely over Punjab during 12th-15th November.
- **Fairly Widespread to Widespread** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 12th-13th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 12th-13th November and on 15th November, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Himachal Pradesh during 12th-13th November.
- Isolated **heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 12th-13th November.

East India:

- **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 9th-15th November with isolated **heavy rainfall** likely over Andaman & Nicobar Islands during 10th-14th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Andaman & Nicobar Islands during 9th-13th November.
- Isolated **heavy rainfall** likely over Andaman & Nicobar Islands during 10th-14th November.

Northeast India:

- **Isolated to Scattered** rainfall likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 9th-12th November.
- Isolated **thunderstorm & lightning** likely over Nagaland, Manipur, Mizoram & Tripura during 10th-11th November.
- Isolated **heavy rainfall** likely over Nagaland, Manipur, Mizoram & Tripura on 11th November.

South Peninsular India:

- **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe on 9th November and on 15th November; Lakshadweep on 9th November.
- Isolated **thunderstorm & lightning** likely over Kerala & Mahe during 11th-13th November.
- Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal during 9th-10th and 15th November; Kerala & Mahe on 9th November.
- No significant weather likely over rest parts of South Peninsular India.

West & Central India:

- **No significant weather likely over West & Central India during the week**.

Fisherman Warning

- **Bay of Bengal**: Over south Myanmar coasts adjoining eastcentral Bay of Bengal and Andaman Sea on 10th November and over Andaman Sea during 12th to 14th November.
- **Arabian Sea**: No Warning.

Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Andaman & Nicobar Islands; **at many places** over Tamil Nadu, Puducherry & Karaikal; **at a few places** over Kerala & Mahe and Lakshadweep; **at isolated places** over Coastal Andhra Pradesh & Yanam and Rayalaseema; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Tamil Nadu, Puducherry & Karaikal**: Kayalpattinam (dist Toothukudi) 11; Tiruchendur (dist Toothukudi), Thangachimadam (dist Ramanathapuram) 6 Each; **Lakshadweep**: Minicoy (dist **Lakshadweep**) 6.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today):**Heavy rain** at isolated places over Tamil Nadu, Puducherry & Karaikal.

❖ **Fog Condition Observed (at 0830 hours of today): Dense fog conditions:** at isolated places over East Uttar Pradesh and Haryana Chandigarh & Delhi **Moderate fog conditions:** at isolated places over Himachal Pradesh **Shallow fog conditions:** at isolated places over Bihar, Haryana Chandigarh & Delhi and Punjab

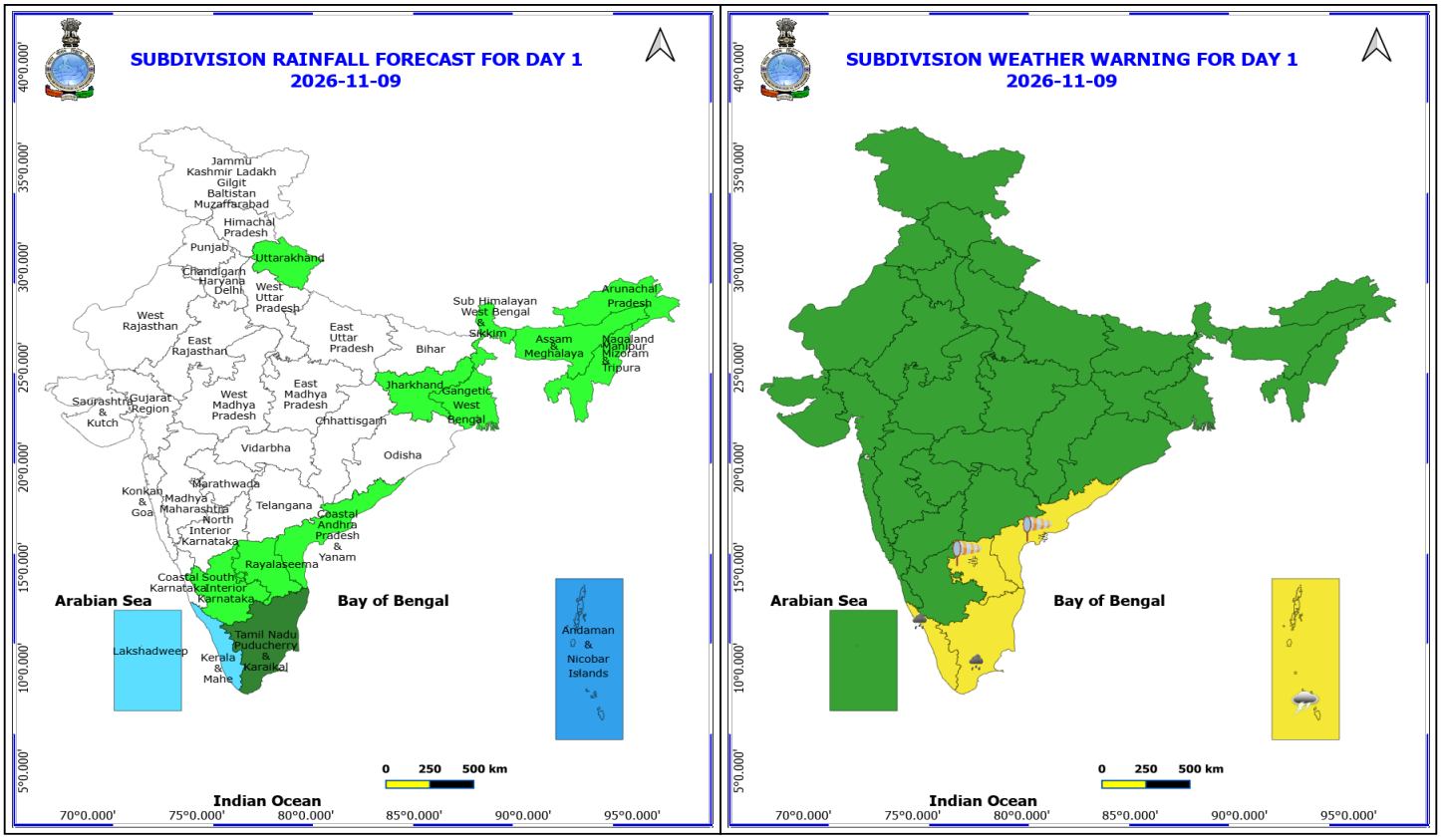
❖ **Visibility reported (at 0830 hours of today):** Odisha: Bhubaneshwar-cuttack (dist Khordha), Angul (dist Angul), Baripada-obs (dist Mayurbhanj), Sundargarh (dist Sundargarh), Bolangir, Titlagarh (dist Balangir), Koraput (dist Koraput), Phulbani (dist Kandhamal), Chhatrapur (dist Ganjam), Rayagada-obs (dist Rayagada), Boudh (dist Boudh), Malkangiri-obs (dist Malkangiri), Sonepur (dist Subarnapur), Paralakhemundi-obs (dist Gajapati) Each;.

❖ **Minimum Temperature Departures (as on 09-11-2026): The lowest minimum temperature** of 10.4°C was reported at MANDI (HIMACHAL PRADESH) over the Plains of India.

❖ **Maximum Temperature Departures (as on 08-11-2026): below normal(-1.6°C to -3.0°C)** at most places over Himachal Pradesh and West Rajasthan. **appreciably below normal(-5.0°C to -3.1°C)** at many places over Tamil Nadu, Puducherry & Karaikal; at few places over Coastal Andhra Pradesh & Yanam and South Interior Karnataka. **markedly below normal(< -5.0°C)** at most places over East Uttar Pradesh, West Uttar Pradesh, West Madhya Pradesh, East Madhya Pradesh, Rayalaseema and North Interior Karnataka. **The highest maximum temperature** of 37.6°C was reported at BARMER (RAJASTHAN).

Meteorological Analysis (Based on 0830 hours IST)

- The **upper air cyclonic circulation**over north Haryana & neighbourhood at 3.1 km above mean sea level persists.
- The **upper air cyclonic circulation** over Northwest Rajasthan & neighbourhood at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over southeast Bangladesh & neighbourhood persists and now seen at 0.9 km above mean sea level.
- The **trough** now runs from north Coastal Andhra Pradesh to northeast Uttar Pradesh across Odisha, Chhattisgarh and Jharkhand at 3.1 km above mean sea level.
- The **upper air cyclonic circulation** over Comorin area & neighbourhood at 0.9 km above mean sea level persists.
- An **upper air cyclonic circulation** lay over south Konkan & neighbourhood at 3.1 km above mean sea level.
- A fresh **Western Disturbance** likely to affect northwestern Himalayan region from the night of 10th November.
- The **upper air cyclonic circulation** over northeast Bihar at 3.1 km above mean sea level has become less marked.
- The **trough** from the **cyclonic circulation** to eastcentral Arabian sea across South Tamil Nadu-south Kerala & Southeast Arabian Sea at 0.9 km above mean sea level has become less marked.



9 November (Day 1)

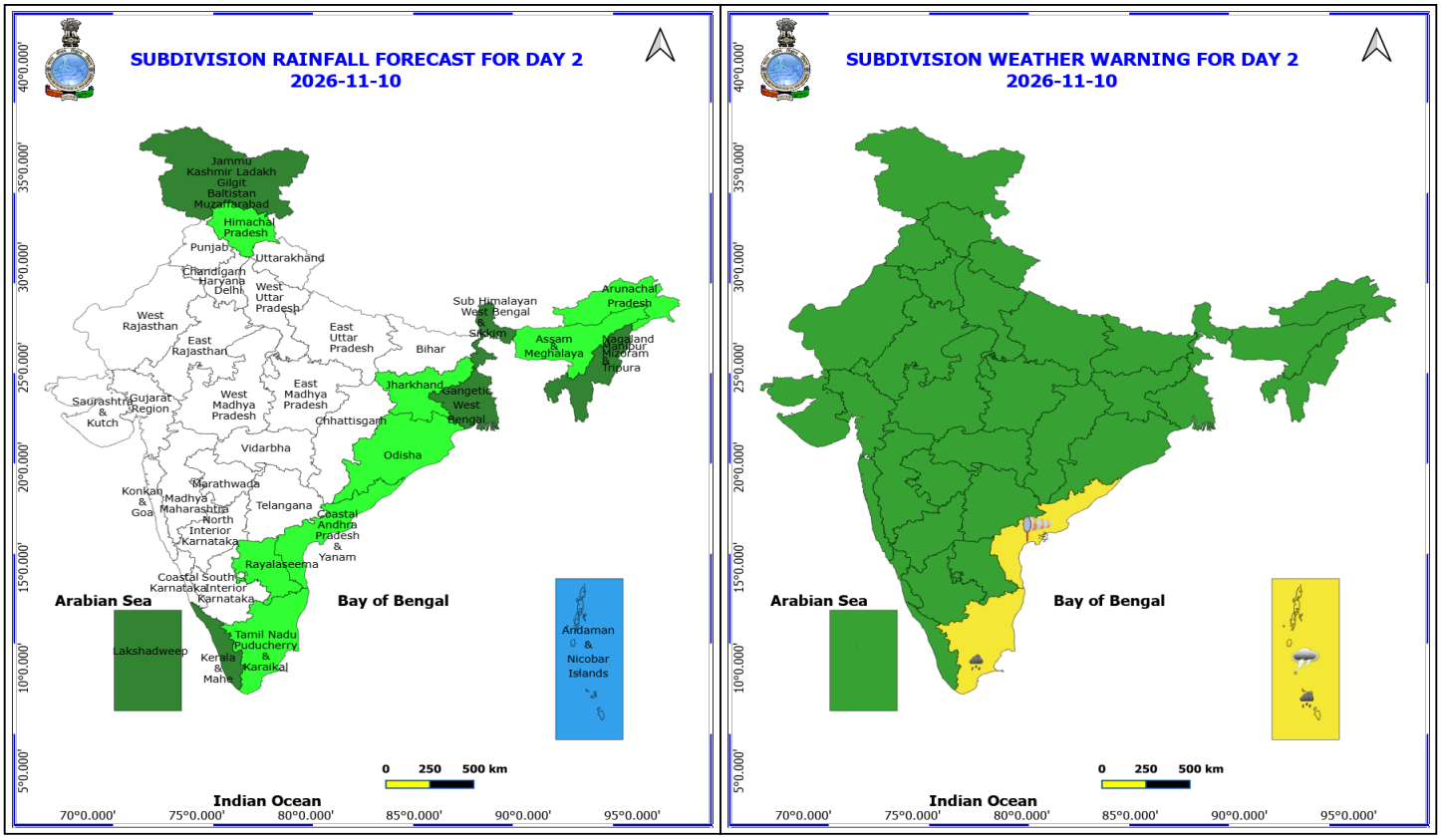
❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.

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

❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.

❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh.

No Fishermen Warning



10 November (Day 2)

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

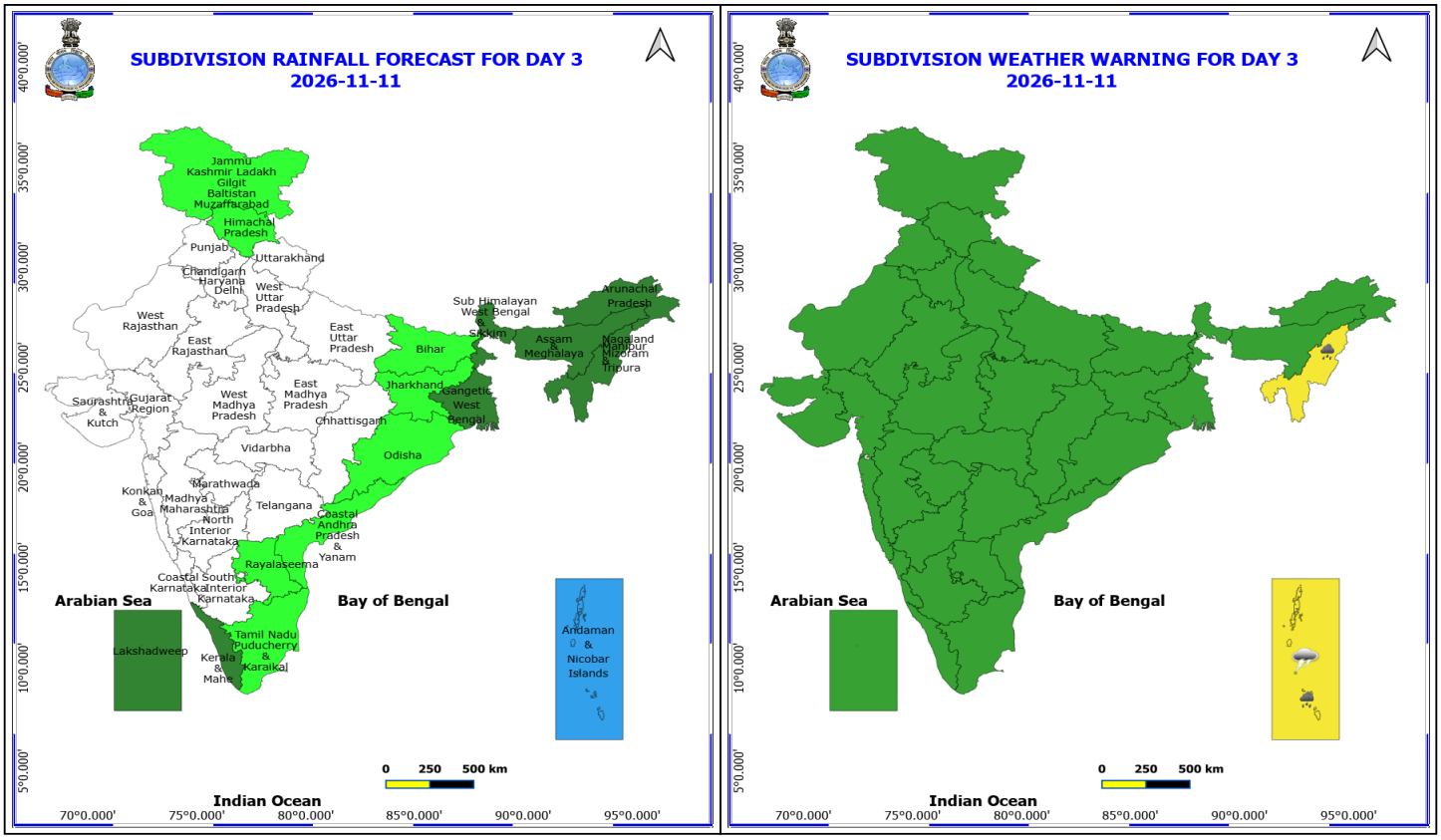
❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands.

❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.

❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Bihar, Nagaland, Manipur, Mizoram and Tripura and West Bengal & Sikkim.

❖ **Strong Surface Winds** very likely at isolated places over Coastal Andhra Pradesh.

❖ **Squally weather with wind speed 40-50 kmph gusting to 60 kmph** is likely to prevail along and off south Myanmar coast adjoining eastcentral Bay of Bangel and over Andaman Sea.



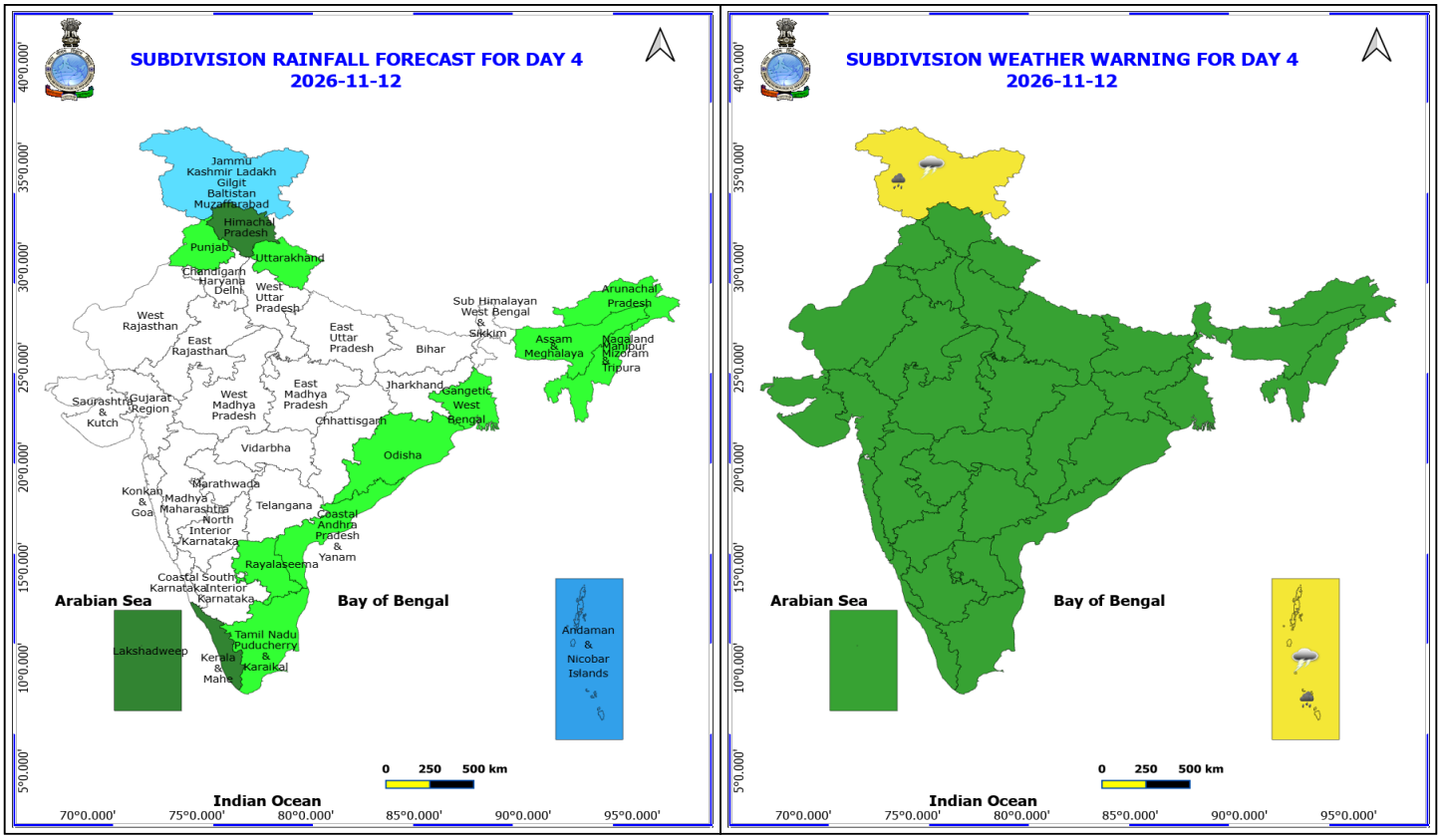
11 November (Day 3)

❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands and Nagaland, Manipur, Mizoram and Tripura.

❖ **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 Bihar, Kerala & Mahe and Nagaland, Manipur, Mizoram and Tripura.

No Fishermen Warning



12 November (Day 4)

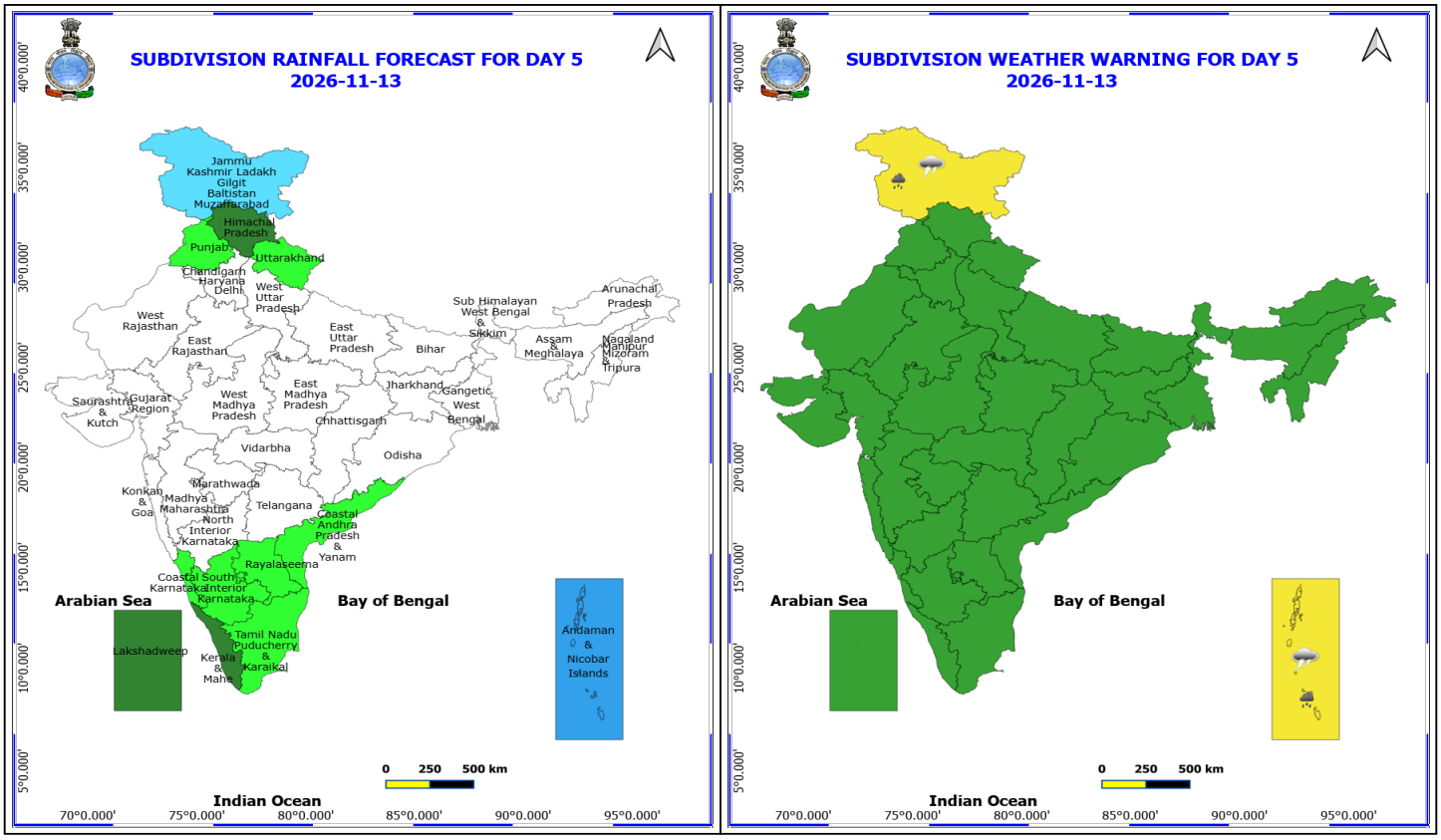
❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Himachal Pradesh.

❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Kerala & Mahe.

❖ **Squally weather with wind speed 40-50 kmph gusting to 60 kmph** is likely to prevail over Andaman Sea.



13 November (Day 5)

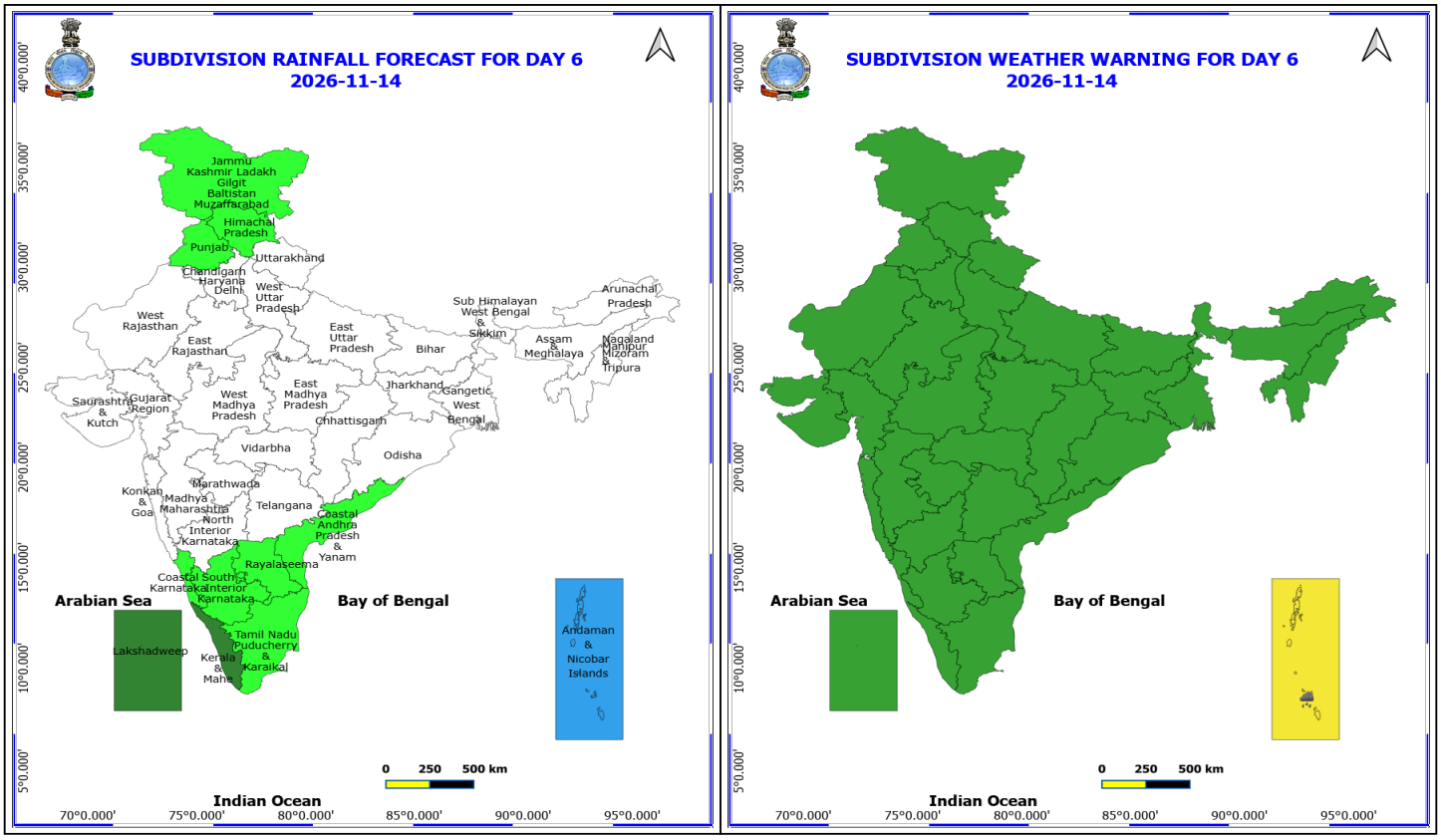
❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Himachal Pradesh.

❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Kerala & Mahe.

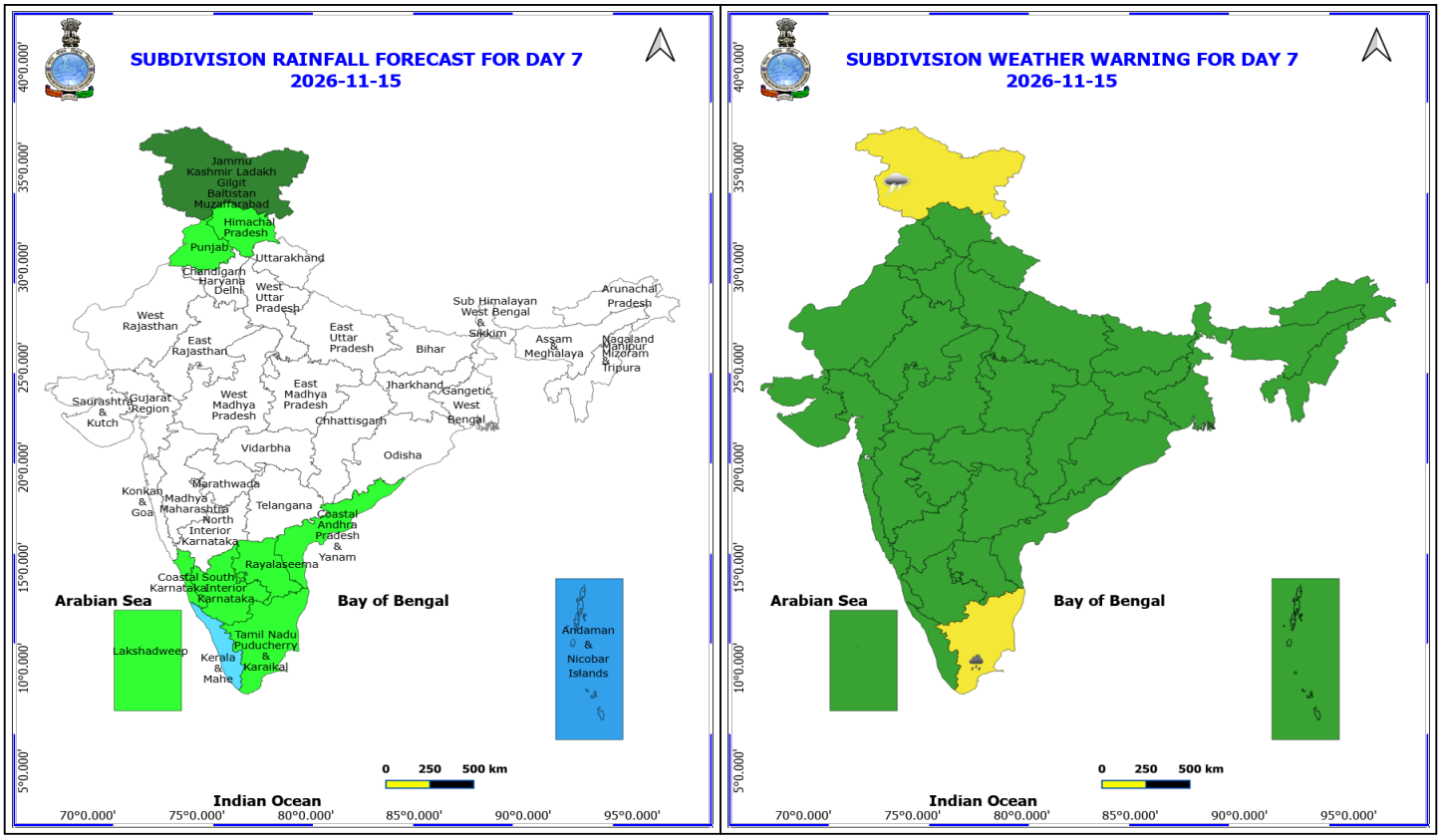
❖ **Squally weather with wind speed 40-50 kmph gusting to 60 kmph** is likely to prevail over Andaman Sea.



14 November (Day 6)

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

No Fishermen Warning



15 November (Day 7)

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

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

No Fishermen Warning

Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	9- Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	ISOL	ISOL	SCT	ISOL	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	ISOL	ISOL	SCT	ISOL	DRY	DRY	DRY
4	N. M. M. & T.	ISOL	SCT	SCT	ISOL	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	ISOL	SCT	SCT	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	ISOL	SCT	SCT	ISOL	DRY	DRY	DRY
7	ODISHA	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
8	JHARKHAND	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	ISOL	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	ISOL	DRY	DRY	ISOL	ISOL	DRY	DRY
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	DRY	ISOL	ISOL	SCT	SCT	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	DRY	SCT	ISOL	FWS	FWS	ISOL	SCT
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	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	ISOL	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	ISOL	DRY	DRY	DRY	ISOL	ISOL	ISOL
35	KERALA	FWS	SCT	SCT	SCT	SCT	SCT	FWS
36	LAKSHDWEEP	FWS	SCT	SCT	SCT	SCT	SCT	ISOL

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 2026-11-08

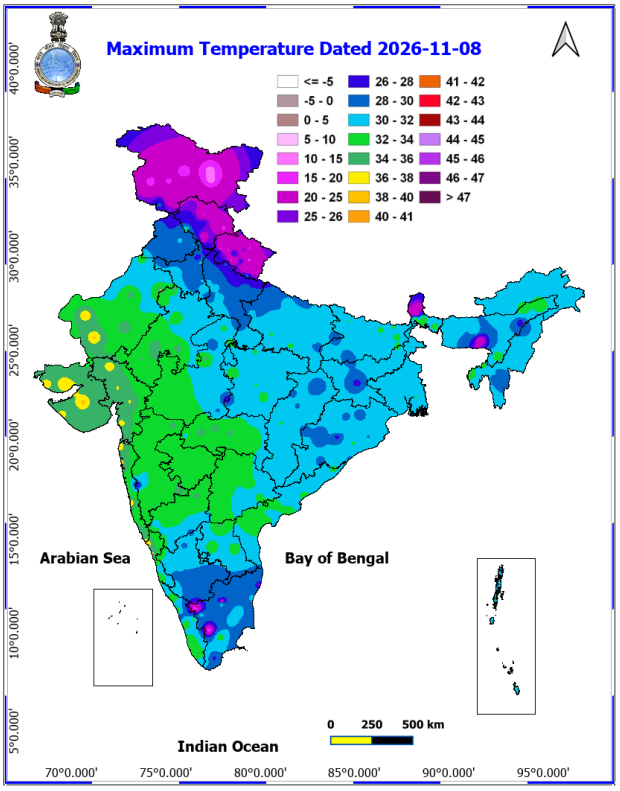


Fig. 2: Departure of Maximum Temp. Dated 2026-11-08

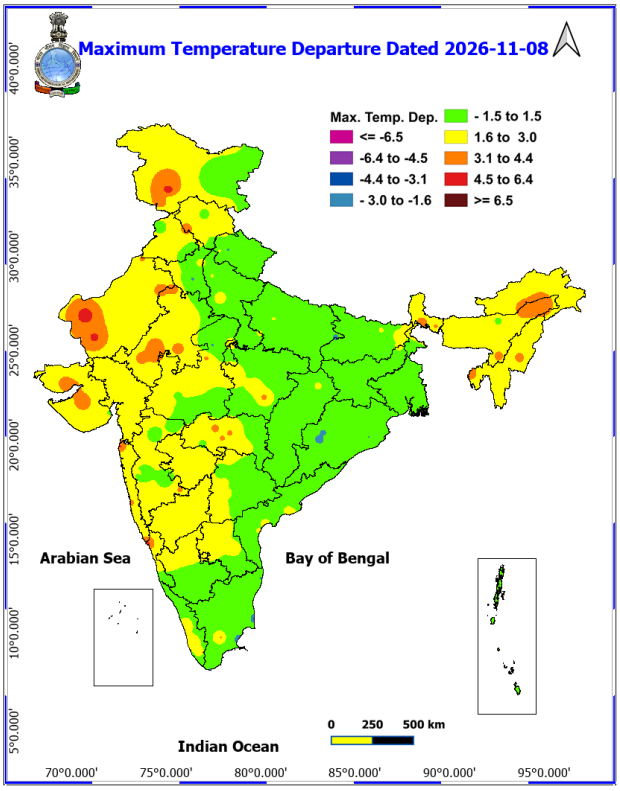


Fig. 3: Minimum Temperatures Dated 2026-11-09

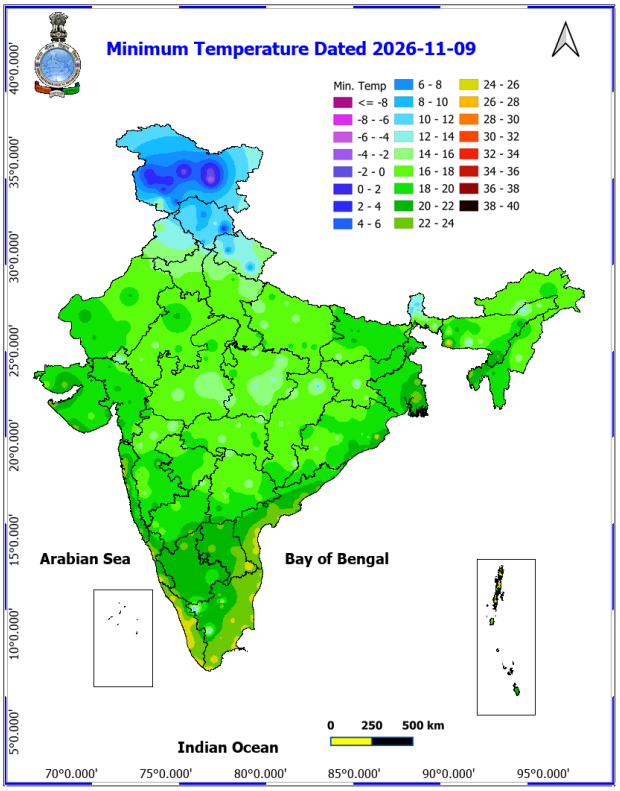
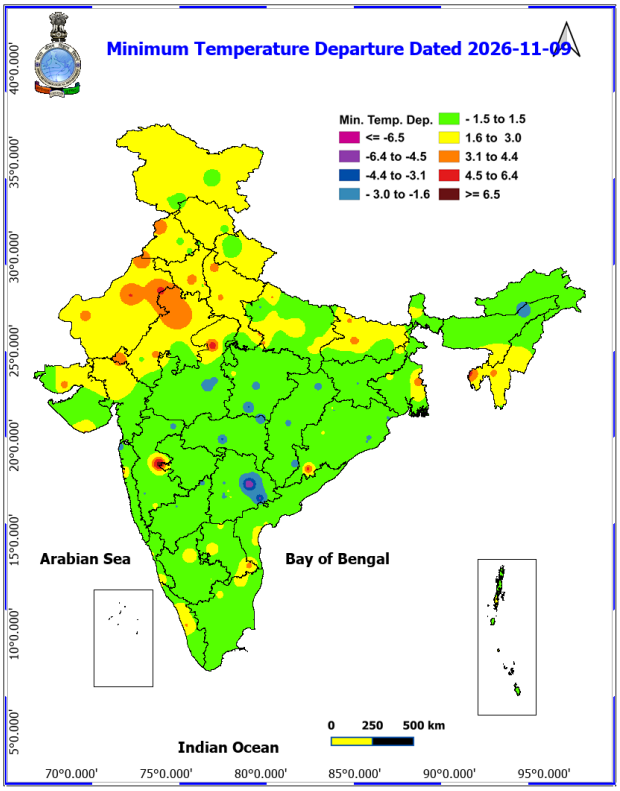
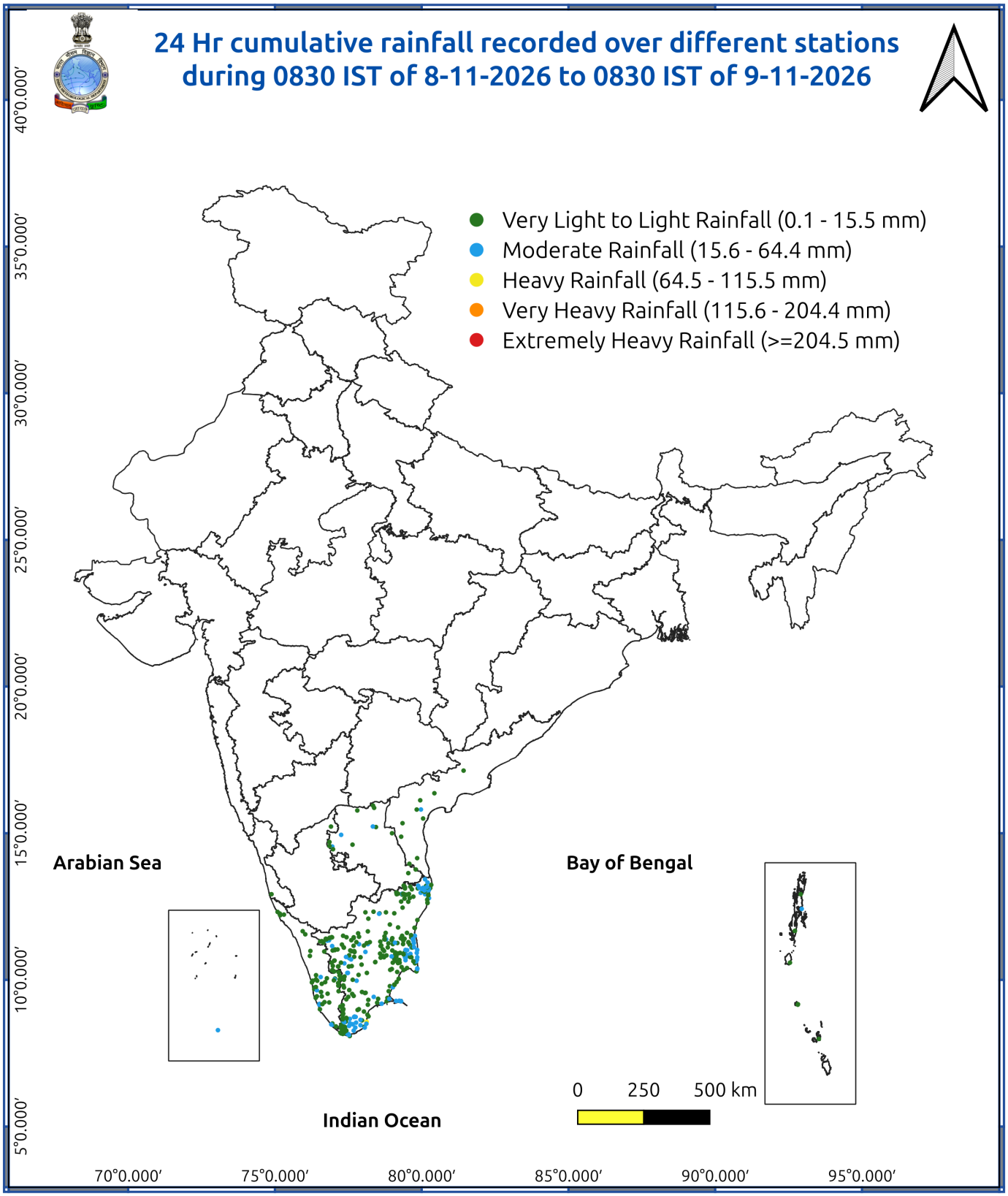


Fig. 4: Departure of Minimum Temp. Dated 2026-11-09



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 8-11-2026 to 0830 IST of 9-11-2026



Impace and Actions

Impact Expected and Action Suggested due to heavy rainfall:

- Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal on 9th-10th and 15th November; Kerala & Mahe on 9th November.
- Isolated **heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 12th-13th November.
- Isolated **heavy rainfall** likely over Andaman & Nicobar Islands during 10th-14th November.
- Isolated **heavy rainfall** likely over Nagaland, Manipur, Mizoram & Tripura on 11th November.

Impact expected:

- Breaking of tree branches, uprooting of small trees like banana, papaya, drum sticks. Strong wind and rain may damage plantation, horticulture and standing crops.
- Partial damage to vulnerable structures due to strong winds and rain.
- Minor damage to kutcha houses/walls, huts and roads due to heavy rain.
- Loose objects may fly.
- Small ships, trawlers and boats may be affected.
- Road and rail traffic may be affected due to heavy rain and squally winds.
- There could be localised landslides, mudslides, landslips, water logging, inundation and flooding over low lying areas.
- Occasional reduction in visibility due to heavy rainfall.
- Helicopter services may get affected.

Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Take safe shelters; do not take shelter under trees, as there could be lightning.
- In case of expected lightning, unplug electrical/ electronic appliances, immediately, get out of water bodies and keep away from all the objects that conduct electricity.
- Tourism and recreational activities to be regulated.
- Onshore and offshore activities to be judiciously regulated.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Heavy Rainfall

- In **Tamil Nadu**, harvest matured paddy and groundnut during clear intervals and move the produce to safe, dry storage. In the Cauvery Delta Zone, maintain proper drainage in rice fields and remove excess water to prevent water stagnation. Store harvested banana bunches in dry places and ensure proper drainage in coconut fields. Postpone irrigation, intercultural operations, fertilizer application and plant protection sprays during rainfall.
- In **Keralam**, Clear drainage channels in crop lowlands and provide propping to banana, vegetables, climbers and other soft-stemmed crops to minimise lodging. Harvest mature paddy and vegetables during suitable dry intervals, and provide staking to banana plants and vegetable trellises. In the Central Zone, commence land preparation for late Mundakan paddy and prepare nurseries under suitable field conditions. Ensure adequate drainage in standing crops and postpone irrigation, intercultural operations, fertilizer application and spraying during rainfall.
- **In Andaman and Nicobar Islands**, provide adequate drainage in standing crop fields and postpone irrigation, intercultural operations, fertilizer application and plant protection sprays during the rainy spell.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the

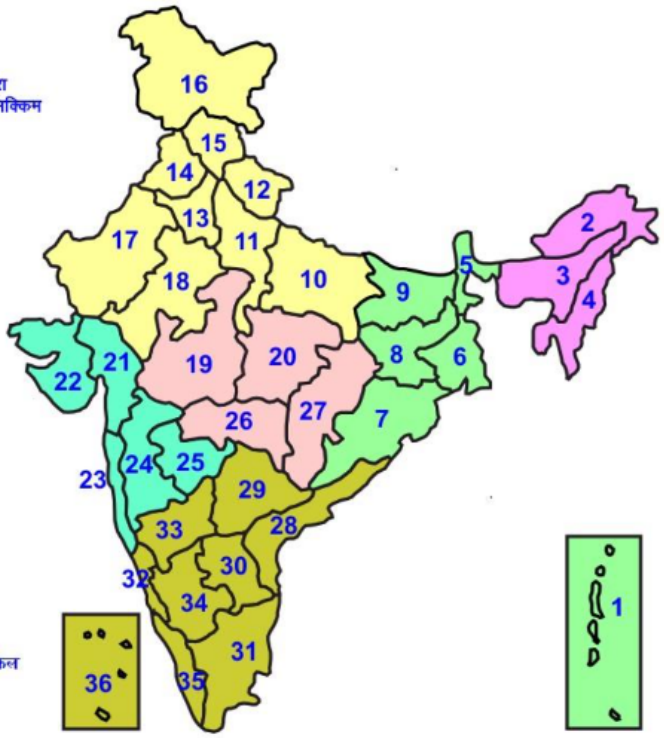
harvested crops securely and cover them to minimize the risk of displacement from strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Advisories for likely impact of Heavy Rainfall for Livestock / Poultry / Fisheries

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

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 झारखंड
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)