राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

2026-11-08
Time of Issue: 13:45:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Systems, Forecast and Warnings

South Peninsular India:

- **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe, Lakshadweep and Tamil Nadu, Puducherry & Karaikal on 8th November.
- **Isolated to Scattered** rainfall likely over Kerala & Mahe, Lakshadweep and Tamil Nadu, Puducherry & Karaikal during 9th-14th November; Coastal Karnataka during 8th-9th November; North Interior Karnataka and Telangana on 8th November; Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka during 8th-14th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Lakshadweep, Rayalaseema and Tamil Nadu, Puducherry & Karaikal during 8th-10th November.
- Isolated **thunderstorm & lightning** likely over Kerala & Mahe during 11th-12th November; South Interior Karnataka on 8th November.
- Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal during 8th-10th November; Kerala & Mahe on 8th November.
- Strong Surface Winds likely over Coastal Andhra Pradesh & Yanam and Rayalaseema during 8th-10th November.

Northwest India:

- **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 10th-11th November and on 14th November; Himachal Pradesh during 11th-14th November; Uttarakhand during 8th-10th November and during 13th-14th November.
- **Isolated to Scattered** rainfall likely over Punjab during 12th-14th 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 10th-14th November.
- Isolated **thunderstorm & lightning** likely over Himachal Pradesh during 12th-13th November.
- Isolated **heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 12th November.

East India:

- **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 8th-14th November.
- **Isolated to Scattered** rainfall likely over Gangetic West Bengal and Sub-Himalayan West Bengal & Sikkim during 9th-12th November; Jharkhand during 10th-11th November; Bihar on 11th November; Odisha during 10th-12th November.
- Isolated **heavy rainfall** likely over Andaman & Nicobar Islands during 9th-13th November.

Northeast India:

- **Isolated to Scattered** rainfall likely over Arunachal Pradesh and Assam & Meghalaya during 9th-12th November; Nagaland, Manipur, Mizoram & Tripura during 9th-13th November.
- Isolated **heavy rainfall** likely over Nagaland, Manipur, Mizoram & Tripura on 11th November.

West & Central India:

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

Forecast of minimum temperatures:

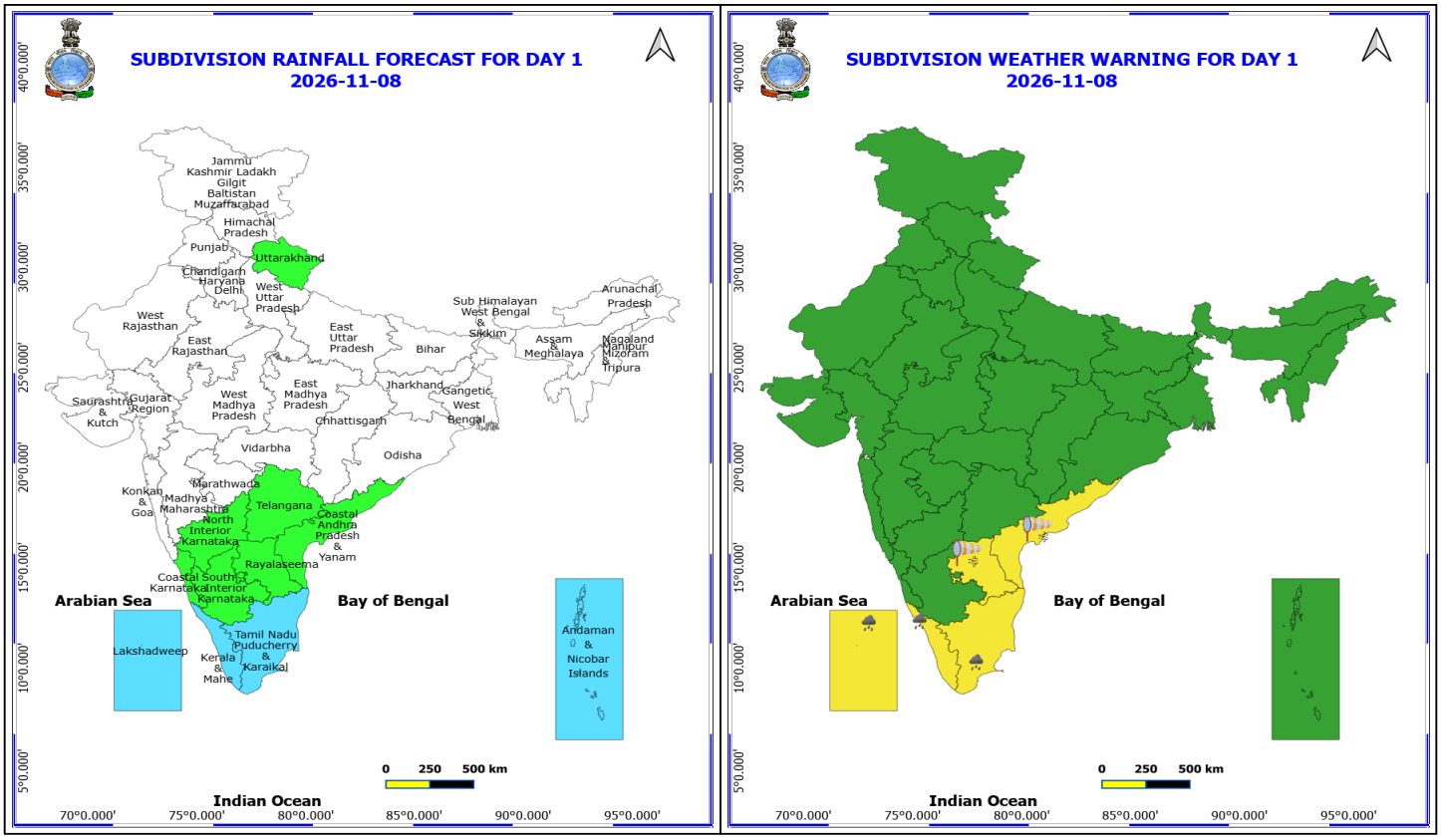
- Gradual fall in maximum temperature by 2-3^0 C for next 2-3 days over East India and no large change thereafter.
- Gradual fall in maximum temperature by 2-3^0 C for next 4-5 days over East India and no large change thereafter.
- No significant change in the maximum temperature likely over rest parts of the country.

Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at many places** over Andaman & Nicobar Islands; **at isolated places** over Arunachal Pradesh and Telangana; **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**: Maya Bandar (dist North & Middle Andaman), Long Island (dist North & Middle Andaman) 2 Each; Iaf Carnicobar (dist Nicobar) 1.
❖ **Fog Condition Observed (at 0830 hours of today): Very dense fog conditions:** at isolated places over Kerala & Mahe **Shallow fog conditions:** at a few places over Haryana Chandigarh & Delhi, at isolated places over Assam & Meghalaya, Odisha, East Uttar Pradesh and West Madhya Pradesh
❖ **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, Rourkela (dist Sundargarh) 500.0; Kerala & Mahe: Kottayam (dist Kottayam) 0.0; West Madhya Pradesh: Gwalior (dist Gwalior) 500.0; East Uttar Pradesh: Basti-obs (dist Basti), Ballia-obs2 (dist Ballia) 500.0 Each; Assam & Meghalaya: Halflong (dist Dima Hasao) 500.0; Haryana Chandigarh & Delhi: New Delhi (safdarjung), New Delhi (palam) AP (dist South West Delhi) 500.0 Each;.
❖ **Minimum Temperature Departures (as on 08-11-2026): The lowest minimum temperature** of 10.0°C was reported at MANDI (HIMACHAL PRADESH) over the Plains of India.
❖ **Maximum Temperature Departures (as on 07-11-2026): below normal(-1.6°C to -3.0°C)** at most places over West Rajasthan. **appreciably below normal(-5.0°C to -3.1°C)** at many places over Coastal Andhra Pradesh & Yanam; at few places over Rayalaseema. **markedly below normal(< -5.0°C)** at most places over East Uttar Pradesh, West Uttar Pradesh, West Madhya Pradesh and East Madhya Pradesh. **The highest maximum temperature** of 38.3°C was reported at KARWAR (KARNATAKA).

Meteorological Analysis (Based on 0830 hours IST)

- The **upper air cyclonic circulation**over north Haryana & neighbourhood persists at 3.1 km above mean sea level.
- An **upper air cyclonic circulation** lies over Northwest Rajasthan & neighbourhood at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over southeast Bangladesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over east Bihar & neighbourhood now lies over northeast Bihar at 3.1 km above mean sea level.
- A **trough** runs from south Chhattisgarh to the above **cyclonic circulation** across 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.
- A **trough** runs from above **cyclonic circulation** to eastcentral Arabian sea across South Tamil Nadu-south Kerala & Southeast Arabian Sea at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over Eastcentral Arabian Sea off Karnataka coast at 0.9 km above mean sea level has merged with the above trough.
- A fresh **Western Disturbance** likely to affect northwestern Himalayan region from 10th November.



8 November (Day 1)

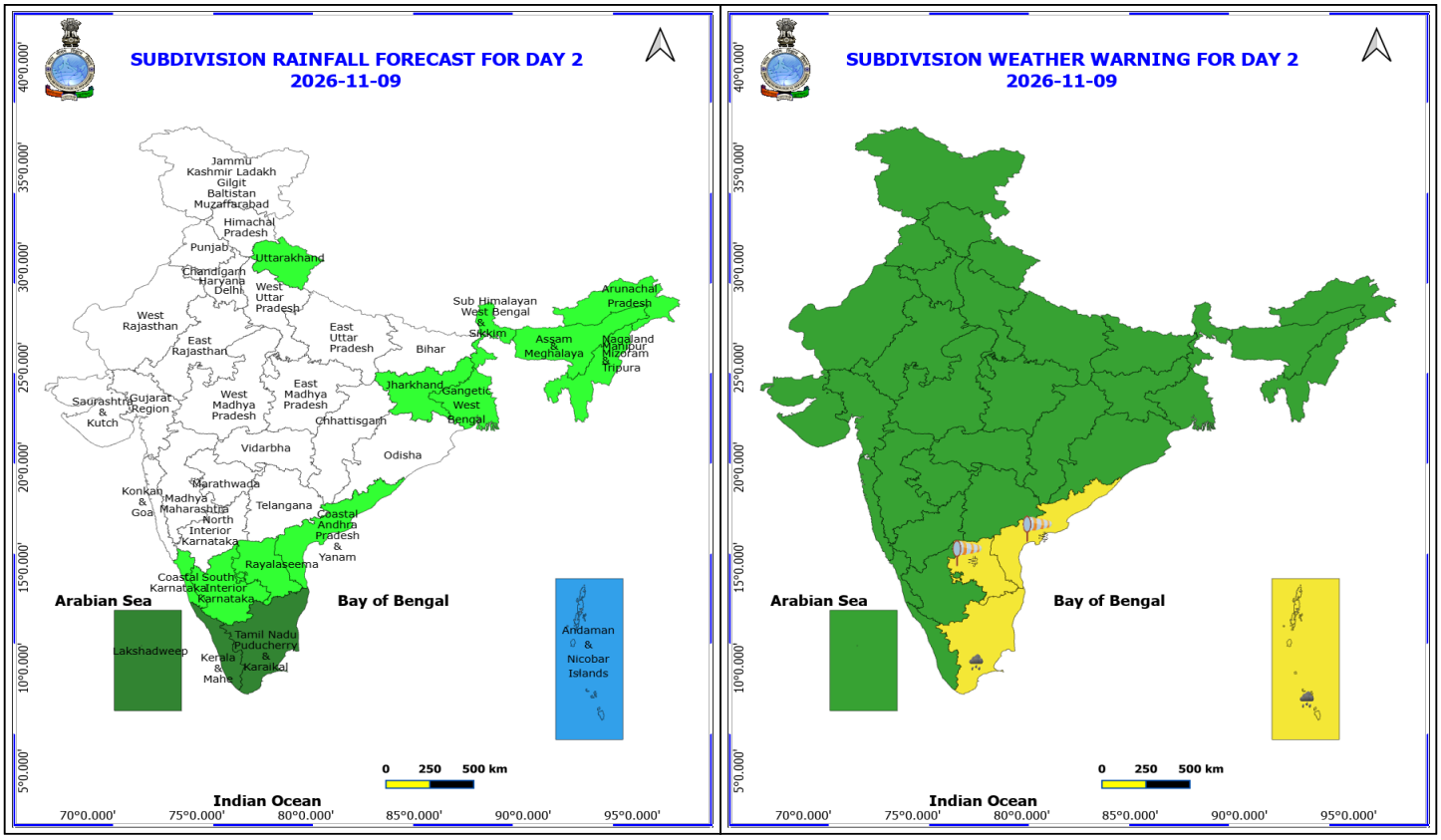
❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.

❖ **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 South Interior Karnataka.

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

No Fishermen Warning



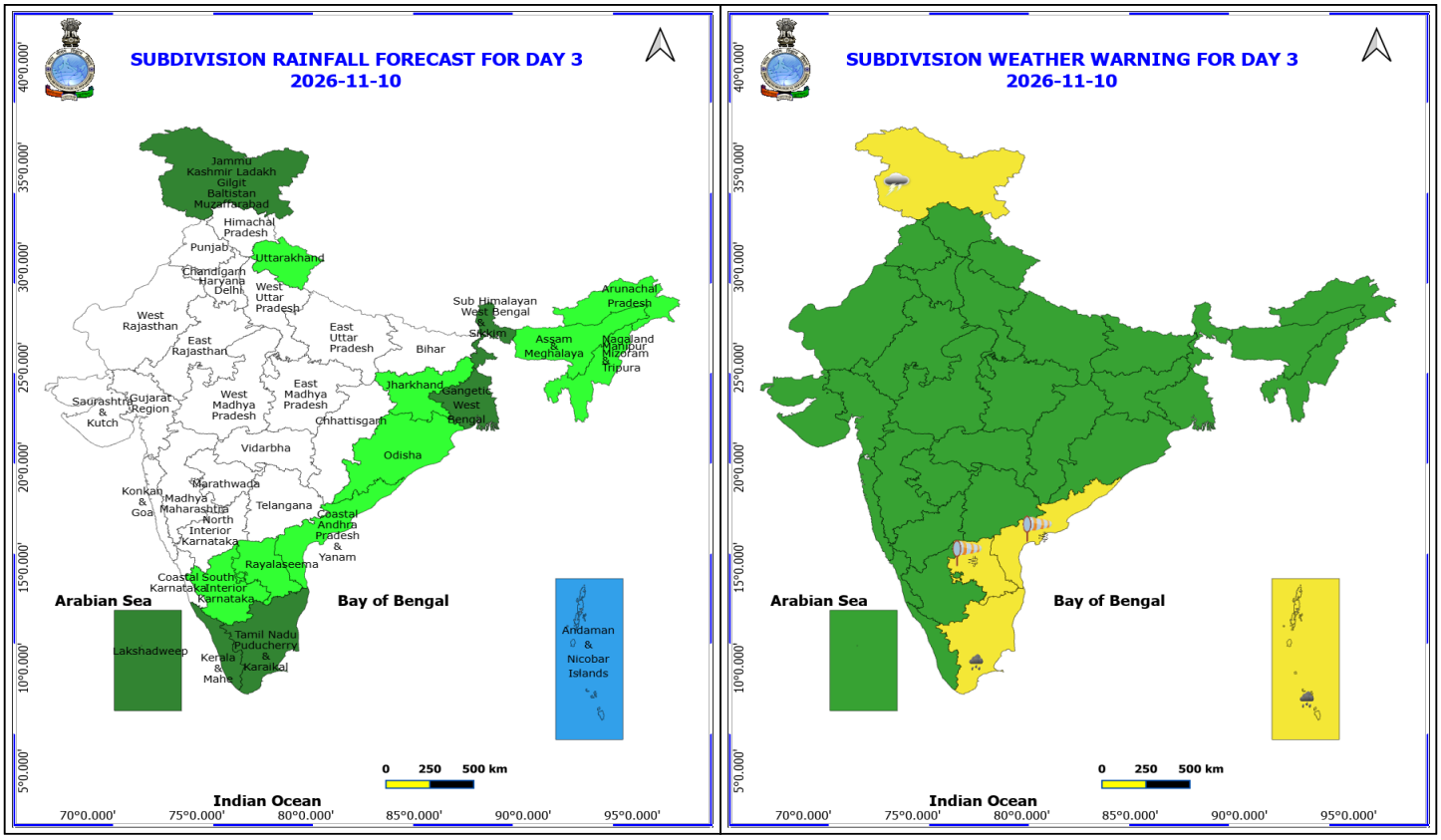
9 November (Day 2)

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

❖ **Thunderstorm accompanied with lightning & gusty winds(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 3)

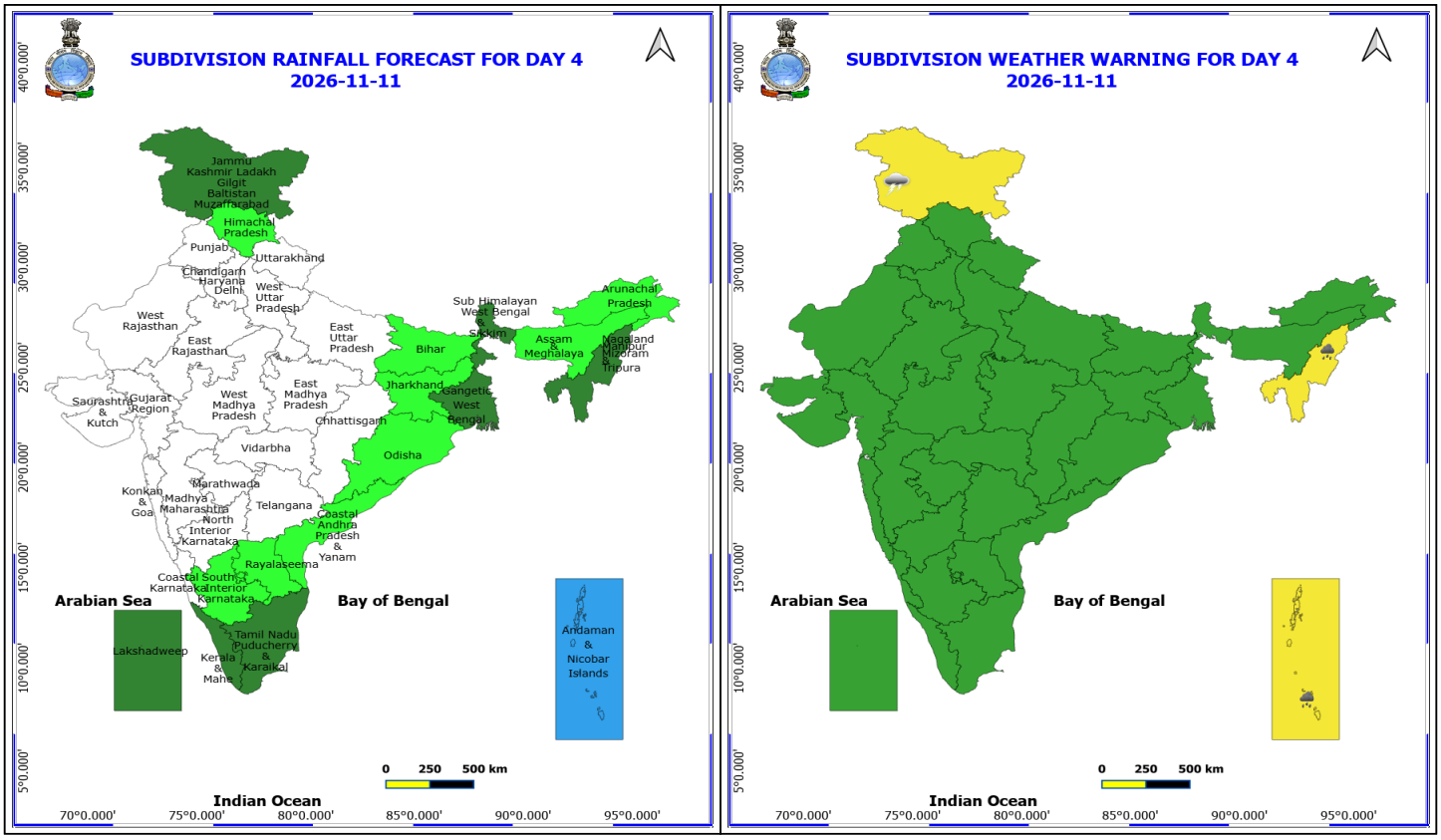
❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands and Tamil Nadu Puducherry & Karaikal.

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

❖ **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



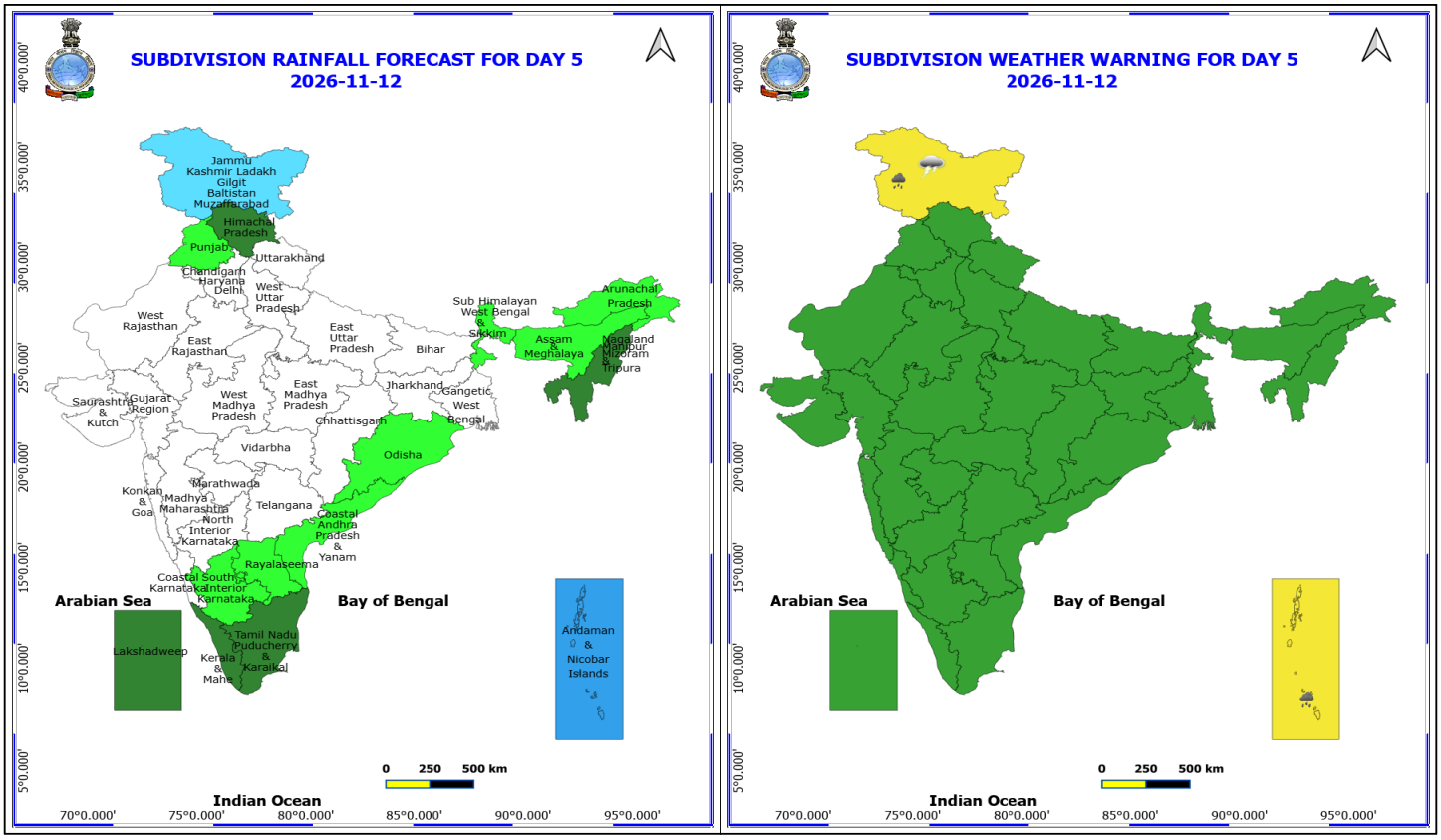
11 November (Day 4)

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

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

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

No Fishermen Warning



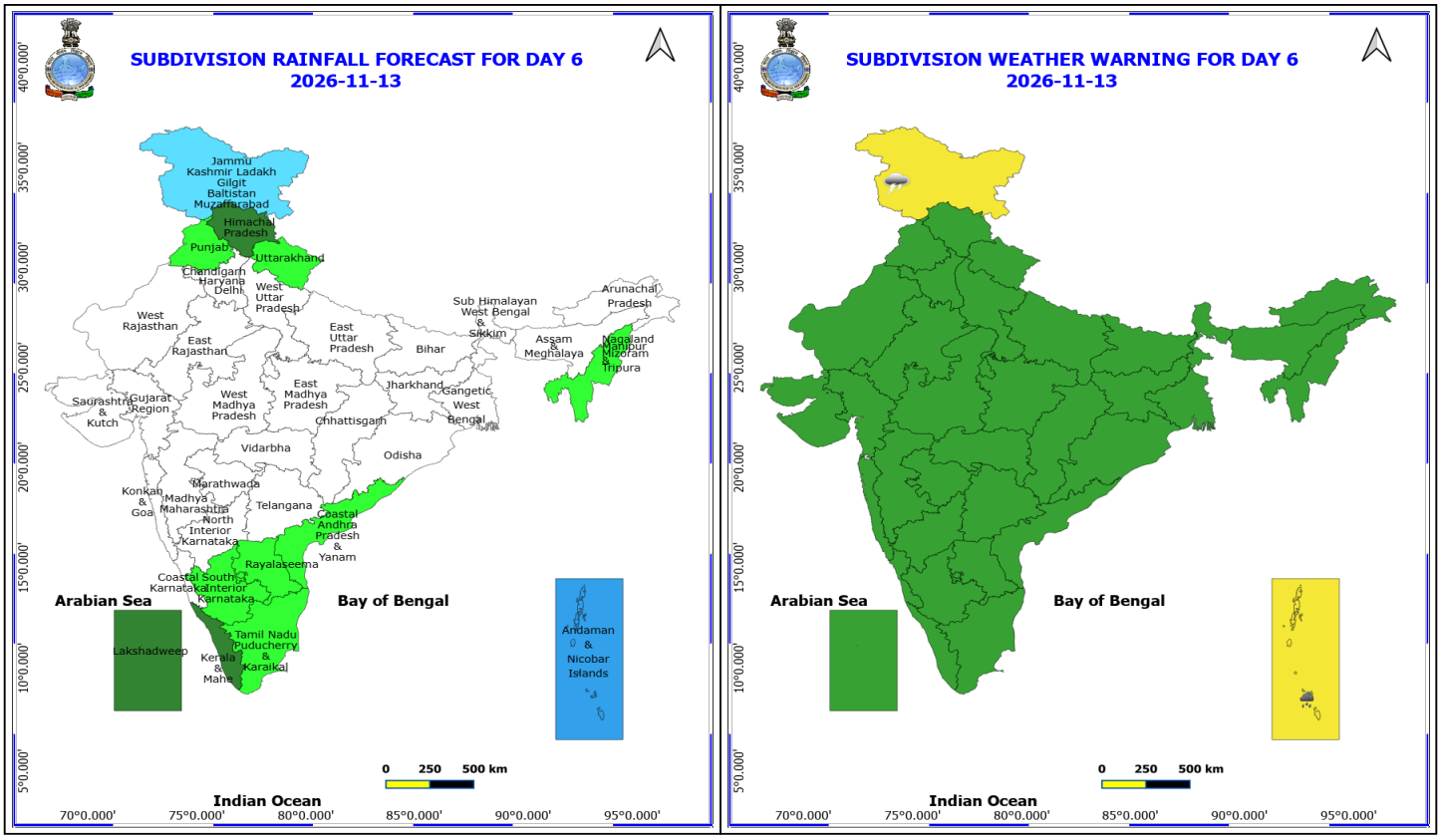
12 November (Day 5)

❖ **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 Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

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

No Fishermen Warning



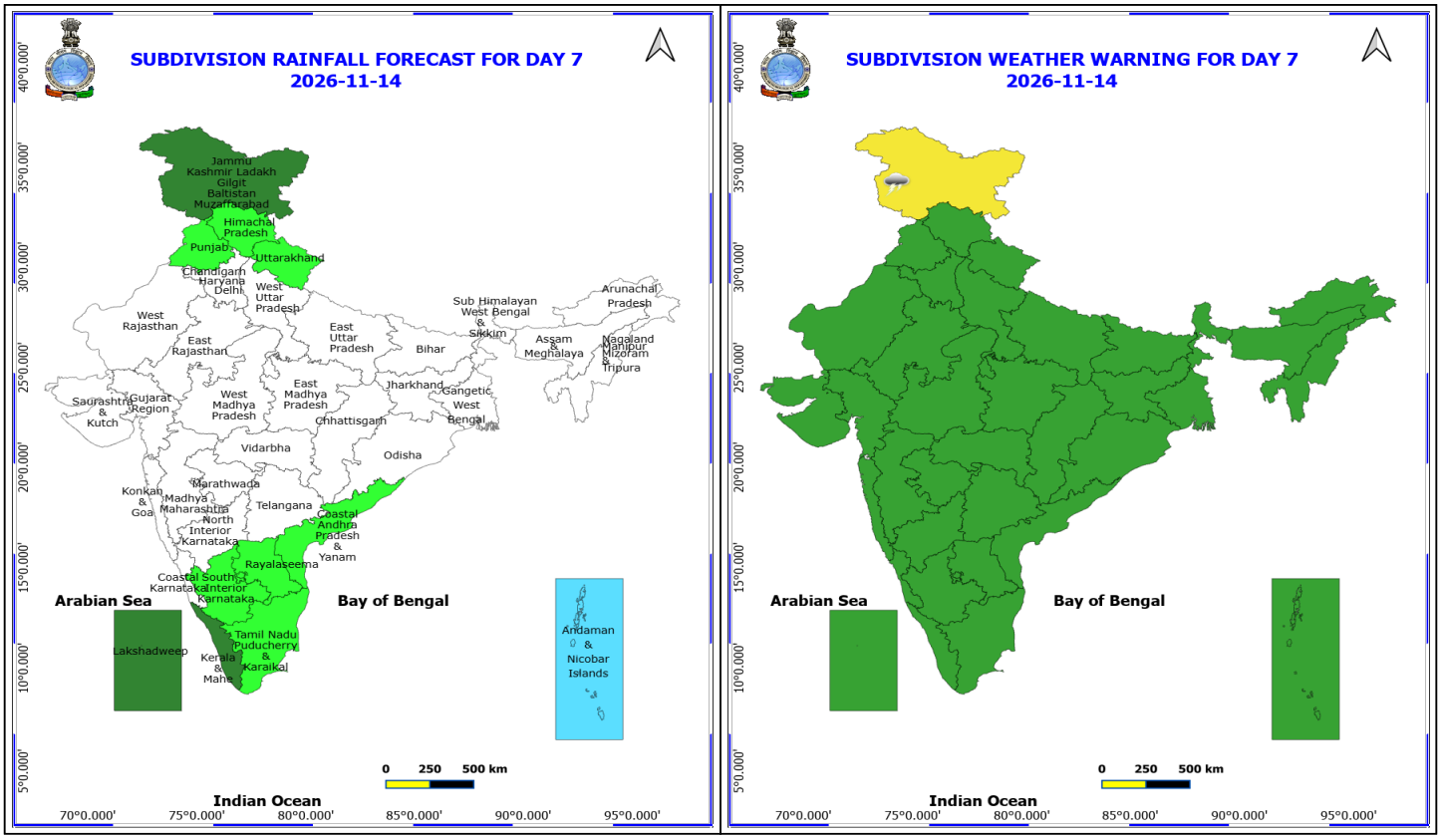
13 November (Day 6)

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

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

❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Himachal Pradesh.

No Fishermen Warning



14 November (Day 7)

❖ **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	8- Nov	9- Nov	10- Nov	11- Nov	12- Nov	13- Nov	14- 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	FWS
2	ARUNACHAL PRADESH	DRY	ISOL	ISOL	ISOL	ISOL	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	ISOL	ISOL	ISOL	ISOL	DRY	DRY
4	N. M. M. & T.	DRY	ISOL	ISOL	SCT	SCT	ISOL	DRY
5	S.H. WEST BENGAL & SIKKIM	DRY	ISOL	SCT	SCT	ISOL	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	ISOL	SCT	SCT	DRY	DRY	DRY
7	ODISHA	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
8	JHARKHAND	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	ISOL	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	ISOL	ISOL	DRY	DRY	ISOL	ISOL
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	DRY	DRY	DRY	ISOL	SCT	SCT	ISOL
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	SCT	SCT	FWS	FWS	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	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	FWS	SCT	SCT	SCT	SCT	ISOL	ISOL
32	COSTAL KARNATAKA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
33	NORTH INTERIOR KARNATAKA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
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 2026-11-07

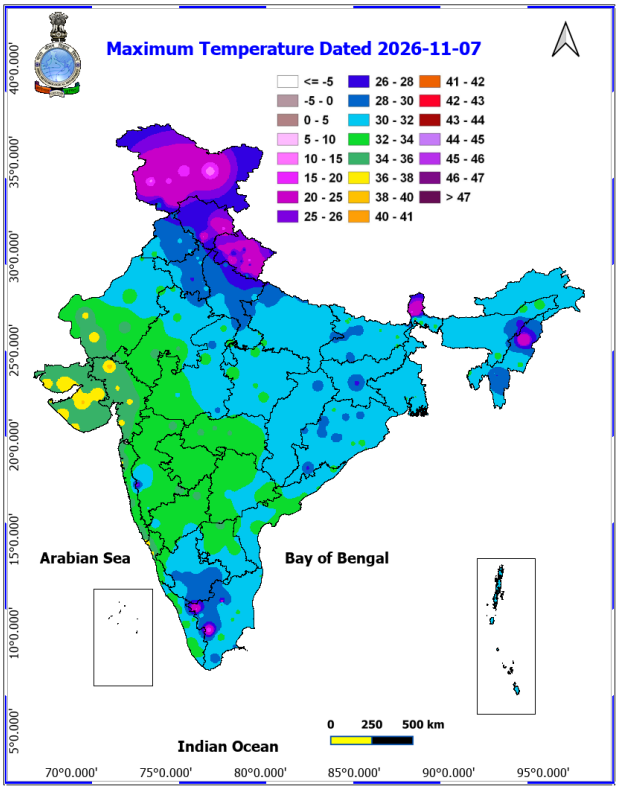


Fig. 2: Departure of Maximum Temp. Dated 2026-11-07

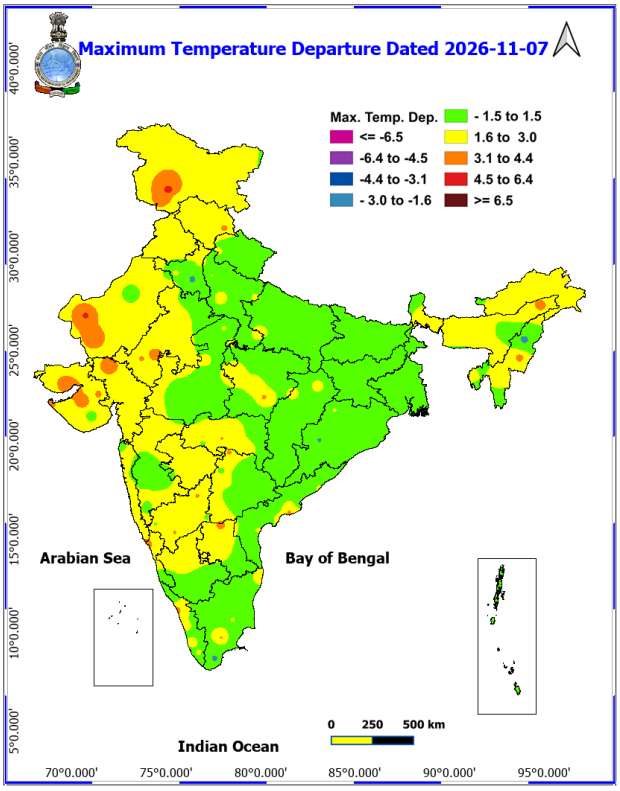


Fig. 3: Minimum Temperatures Dated 2026-11-08

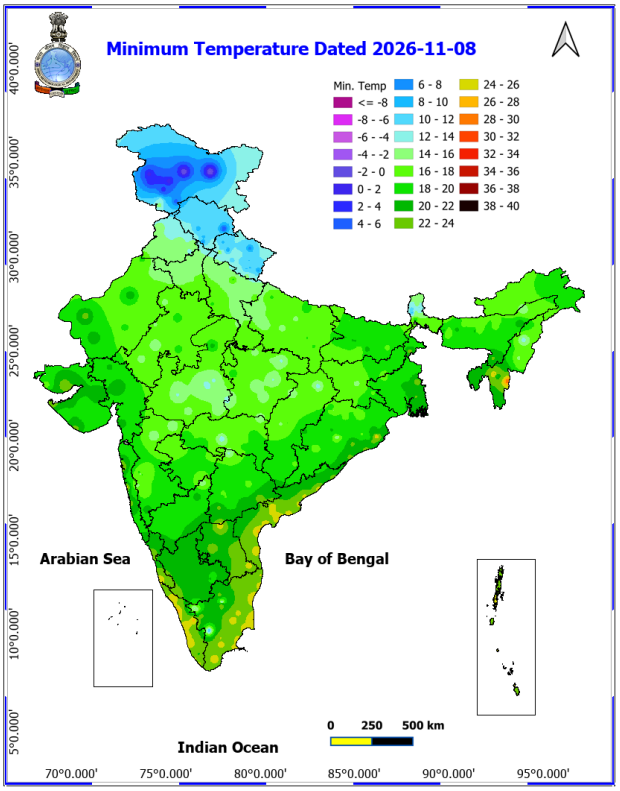
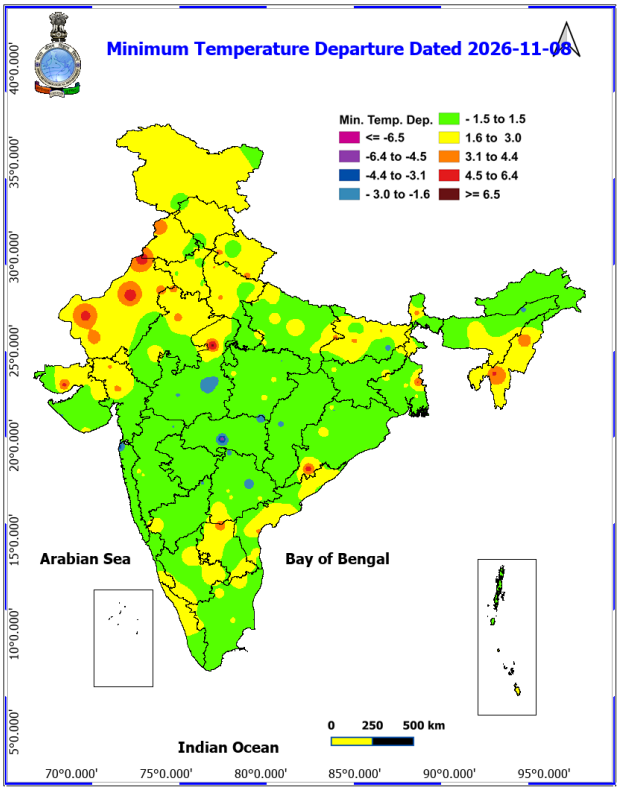
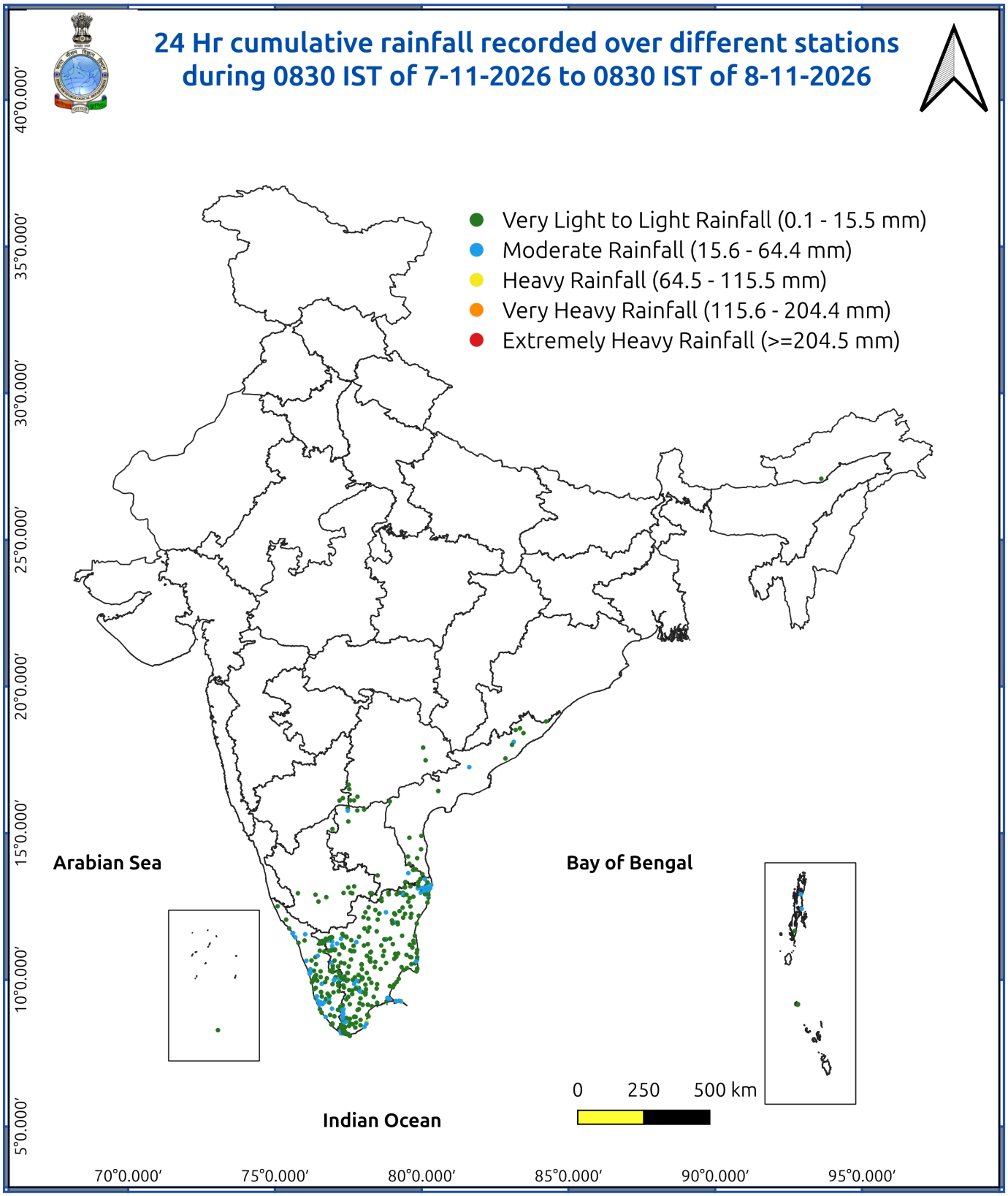


Fig. 4: Departure of Minimum Temp. Dated 2026-11-08



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 7-11-2026 to 0830 IST of 8-11-2026



Impace and Actions

Impact Expected and Action Suggested due to heavy rainfall:

- Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal during 8th-10th November; Lakshadweep, Kerala & Mahe on 8th November.
- Isolated **heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 12th November.
- Isolated **heavy rainfall** likely over Andaman & Nicobar Islands during 9th-13th 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**, provide adequate drainage and drain excess water from rice, maize and casuarina and provide mechanical support to banana plantations. Open field drains to prevent root zone waterlogging in sugarcane.
- In **Keralam**, ensure proper drainage in standing crop fields. Undertake transplanting of *rabi* rice only when field conditions are suitable. Prepare well-drained planting pits for banana. Provide support to banana and papaya plantations and stake young plants and vegetables wherever required to minimise damage from gusty winds.
- In **Andaman & Nicobar Islands**, ensure proper drainage in crop fields and nurseries, and harvest mature rice and vegetables during rain-free intervals, drying the produce under cover. Support banana plants with props and raise vegetable nurseries on raised beds under rain shelter. Avoid fertilizer and pesticide application during rainfall, and undertake arecanut protection measures against fruit rot only during rain-free weather.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

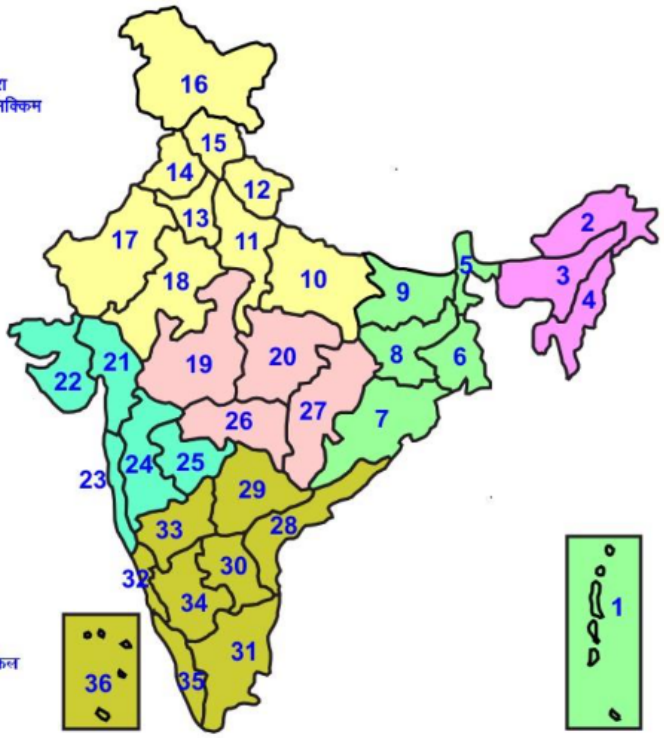
- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables 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)