राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

2026-11-10
Time of Issue: 20:32:00 hours IST
(Night)

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-16th November; Himachal Pradesh during 10th-16th November; Uttarakhand during 12th-13th November.
- **Isolated to Scattered** rainfall likely over Punjab during 12th-16th 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 on 10th November and during 12th-14th 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 on 12th November

East India:

- **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 10th-16th November.
- **Isolated to Scattered** rainfall likely over Bihar, Jharkhand and Sub-Himalayan West Bengal & Sikkim during 10th-11th November; Gangetic West Bengal during 10th-12th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Andaman & Nicobar Islands during 10th-14th November, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Andaman & Nicobar Islands during 15th-16th November.
- Isolated **thunderstorm & lightning** likely over Gangetic West Bengal and Sub-Himalayan West Bengal & Sikkim on 10th 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 10th-12th November.
- Isolated **thunderstorm & lightning** likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 10th-11th November.
- Isolated **heavy rainfall** likely over Nagaland, Manipur, Mizoram & Tripura on 10th November.
- Moderate to intense lightning over Meghalaya, Mizoram and Tripura on 10th & 11th November.

South Peninsular India:

- **Isolated to Scattered** rainfall likely over Tamil Nadu, Puducherry & Karaikal during 10th-14th November and on 16th November; Kerala & Mahe during 10th-15th November; Lakshadweep during 10th-16th November; Coastal Karnataka and South Interior Karnataka during 15th-16th November; Coastal Andhra Pradesh & Yanam and Rayalaseema during 14th-16th November.
- **Fairly Widespread to Widespread** rainfall likely over Tamil Nadu, Puducherry & Karaikal on 15th November; Kerala & Mahe on 16th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Tamil Nadu, Puducherry & Karaikal during 10th-12th November and during 15th-16th November.
- Isolated **thunderstorm & lightning** likely over Tamil Nadu, Puducherry & Karaikal during 13th-14th November; Kerala & Mahe and Lakshadweep during 10th-12th November; Rayalaseema on 14th November.
- Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal on 10th & 11th November and on 15th & 16th November; Kerala & Mahe on 16th November.

West & Central India:

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

Fisherman Warning:

- **Bay of Bengal**: Over south Myanmar coast adjoining eastcentral Bay of Bengal on 10th November and over Andaman Sea till 15th November and over southeast Bay of Bengal during 13th to 15 November 2026.
- **Arabian Sea**: No Warning.

Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of today): **at many places** over Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Jammu & Kashmir and Ladakh, Kerala & Mahe, Tamilnadu Puducherry & Karaikal and Lakshadweep ; **Dry** over rest of the country.

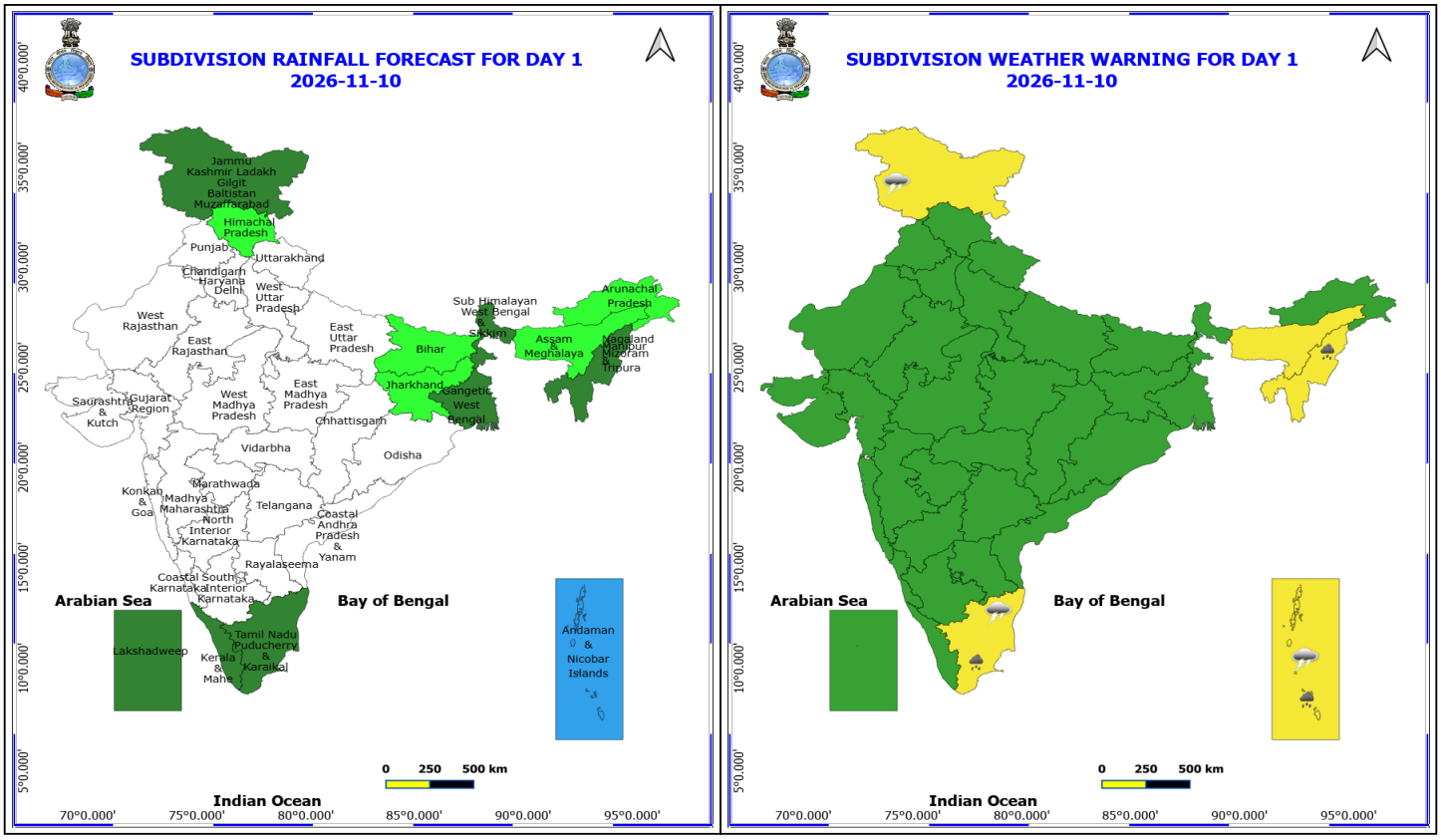
❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST to 1730 hours IST of today): **Andaman & Nicobar Islands**: Nancowry (dist Nicobar) 3; **Gangetic West Bengal**: Kolkata (dum Dum) AP (dist North 24 Parganas) 2.

❖ **Minimum Temperature Departures (as on 10-11-2026): below normal(-1.6°C to -3.0°C)** at many places over Chhattisgarh; at few places over Andaman & Nicobar Islands, Vidarbha, Telangana and North Interior Karnataka; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Odisha, Bihar, East Uttar Pradesh, Himachal Pradesh, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka. **appreciably below normal(-5.0°C to -3.1°C)** at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, Bihar, East Uttar Pradesh, Himachal Pradesh, West Madhya Pradesh, East Madhya Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, North Interior Karnataka and South Interior Karnataka. **markedly below normal(< -5.0°C)** at few places over East Madhya Pradesh; at isolated places over Odisha, West Uttar Pradesh, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Telangana. **The lowest minimum temperature** of 10.2°C was reported at MANDI (HIMACHAL PRADESH) over the Plains of India.

❖ **Maximum Temperature Departures (as on 10-11-2026): The highest maximum temperature** of 38.7°C was reported at RAJKOT (A) (GUJARAT).

Meteorological Analysis (Based on 1730 hours IST)

- The **Western Disturbance** as a **trough** in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along long 57°E to the north of Lat 30°N.
- The **trough** from northwest Uttar Pradesh to north Coastal Andhra Pradesh across Chhattisgarh and Odisha at 3.1 km above mean sea level persists.
- The **upper air cyclonic circulation** over southeast Arabian Sea & adjoining Lakshadweep area at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over Gulf of Mannar & neighbourhood extending upto 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over central Assam & neighbourhood between 1.5 and 3.1 km above mean sea level persists.
- A **Low Pressure Area** is likely to form over Southeast Bay of Bengal around 13th November, 2026. It is likely to move northwestwards and become well marked low pressure area during subsequent 24 hours.
- The **upper air cyclonic circulation** over southeast Rajasthan & neighbourhood at 0.9 km above mean sea level has become less marked.



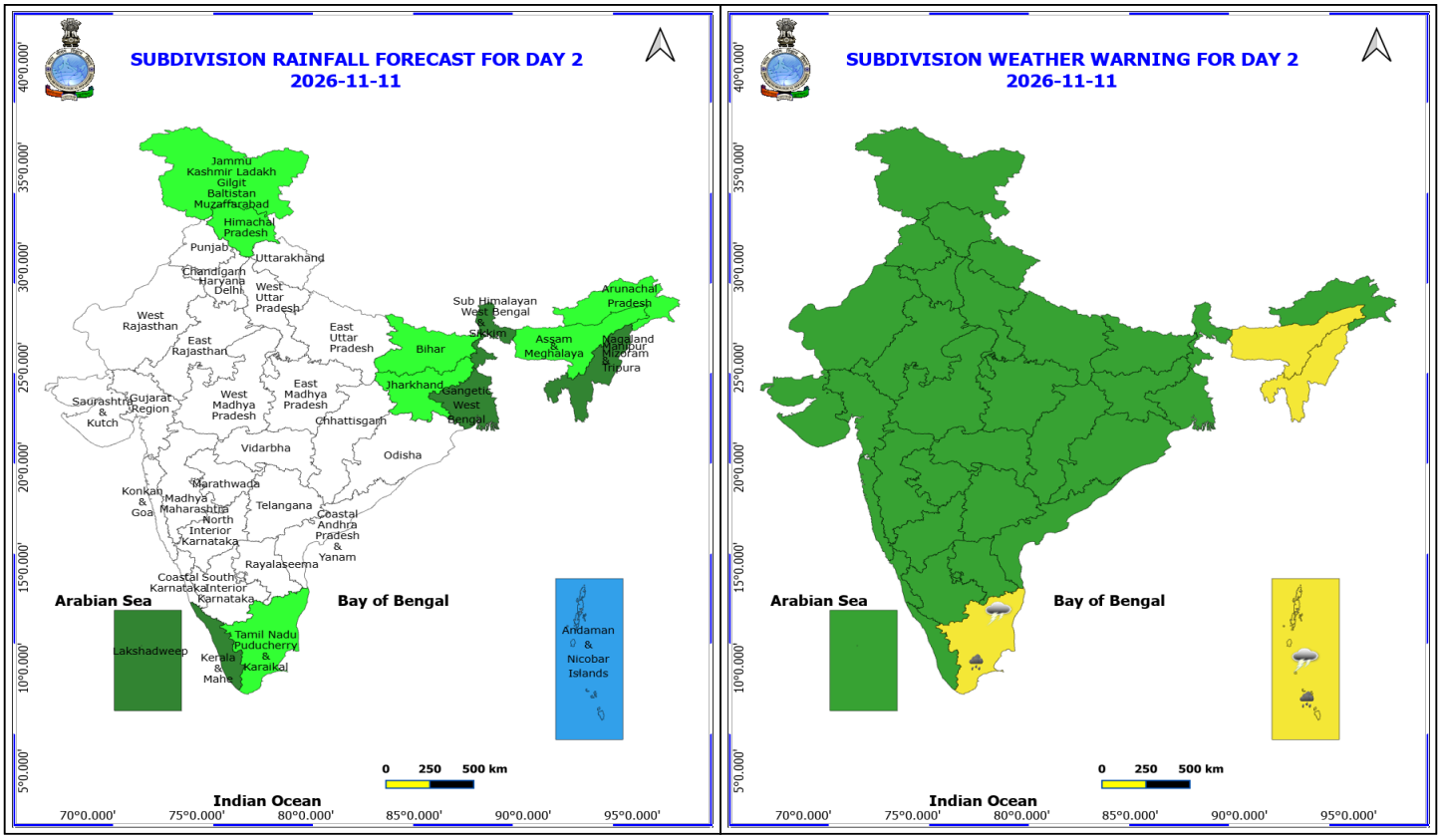
10 November (Day 1)

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

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

❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Assam & Meghalaya, Kerala & Mahe, Lakshadweep, Nagaland, Manipur, Mizoram and Tripura and West Bengal & Sikkim.

No Fishermen Warning



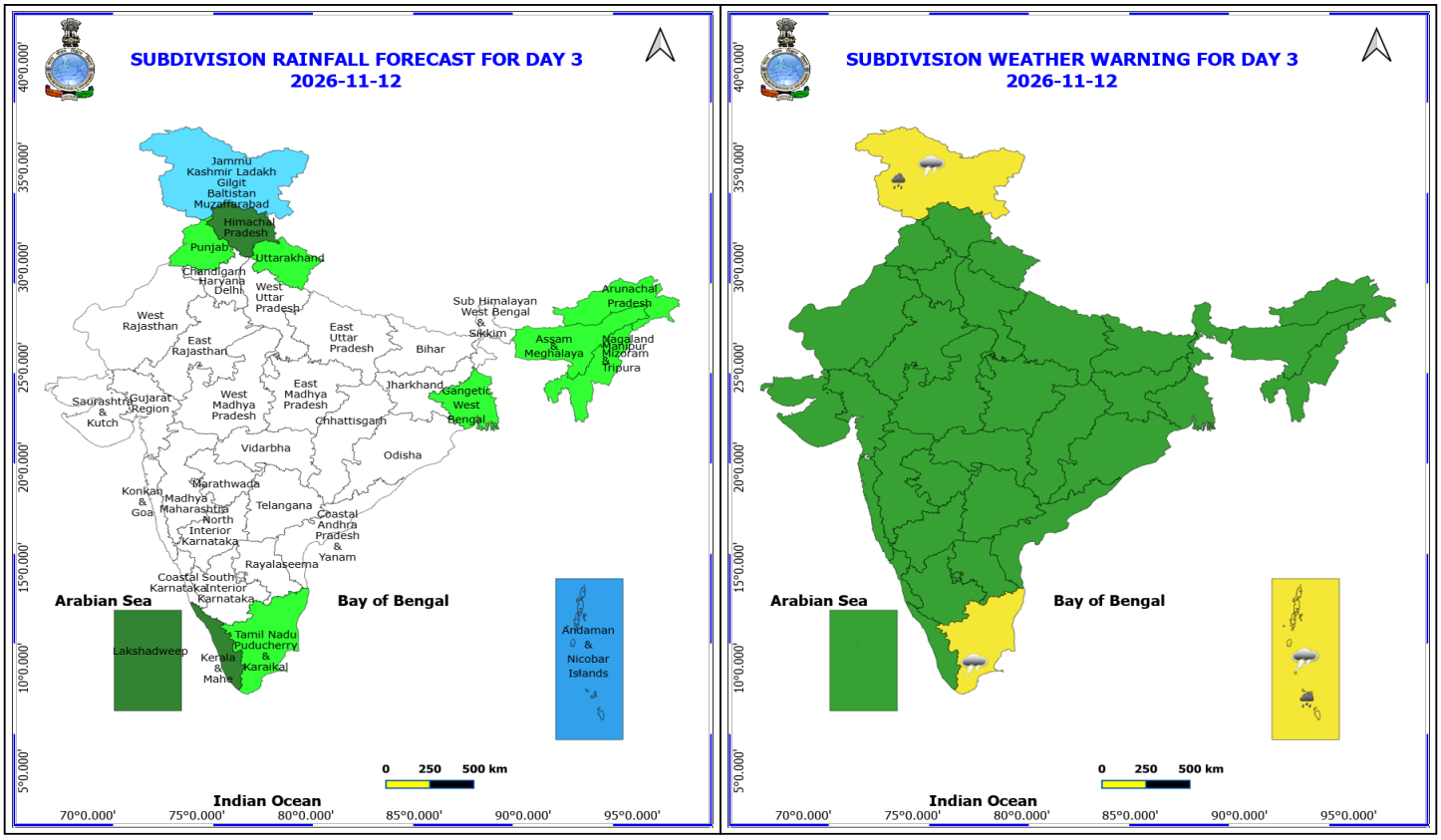
11 November (Day 2)

❖ **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 and Tamil Nadu Puducherry & Karaikal.

❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Assam & Meghalaya, Kerala & Mahe, Lakshadweep and Nagaland, Manipur, Mizoram and Tripura.

❖ **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.



12 November (Day 3)

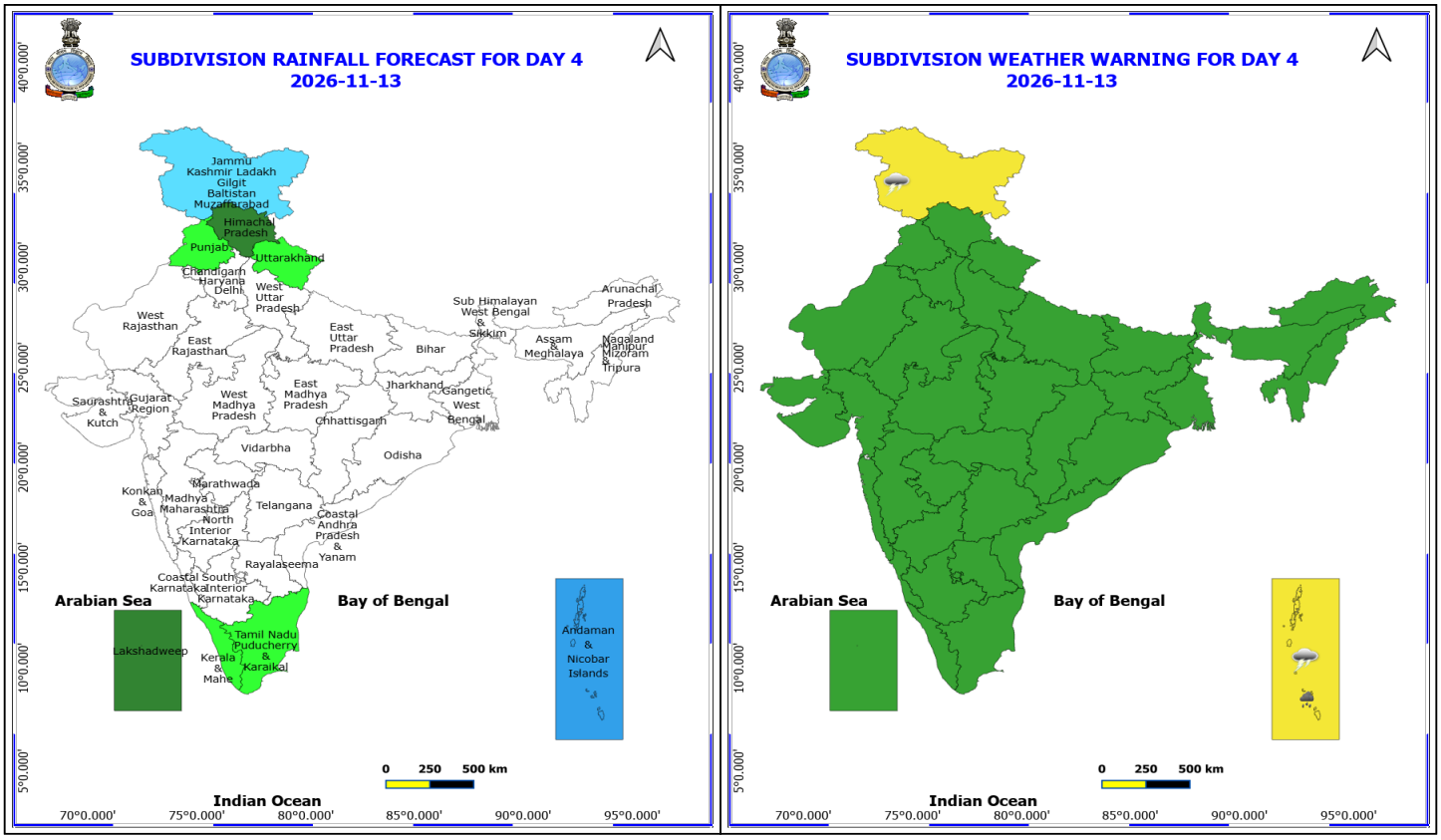
❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

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

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

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

No Fishermen Warning



13 November (Day 4)

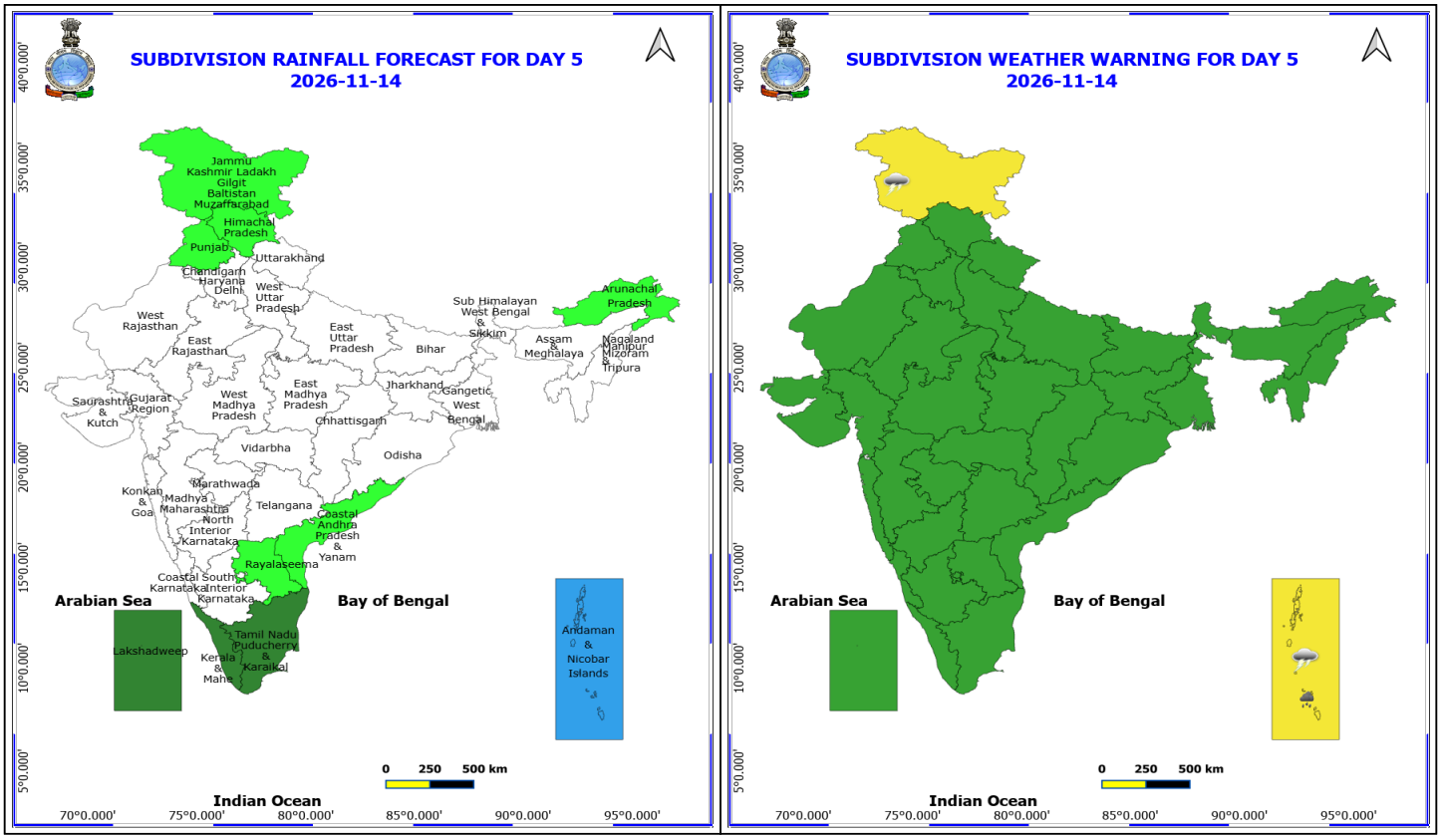
❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands.

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

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



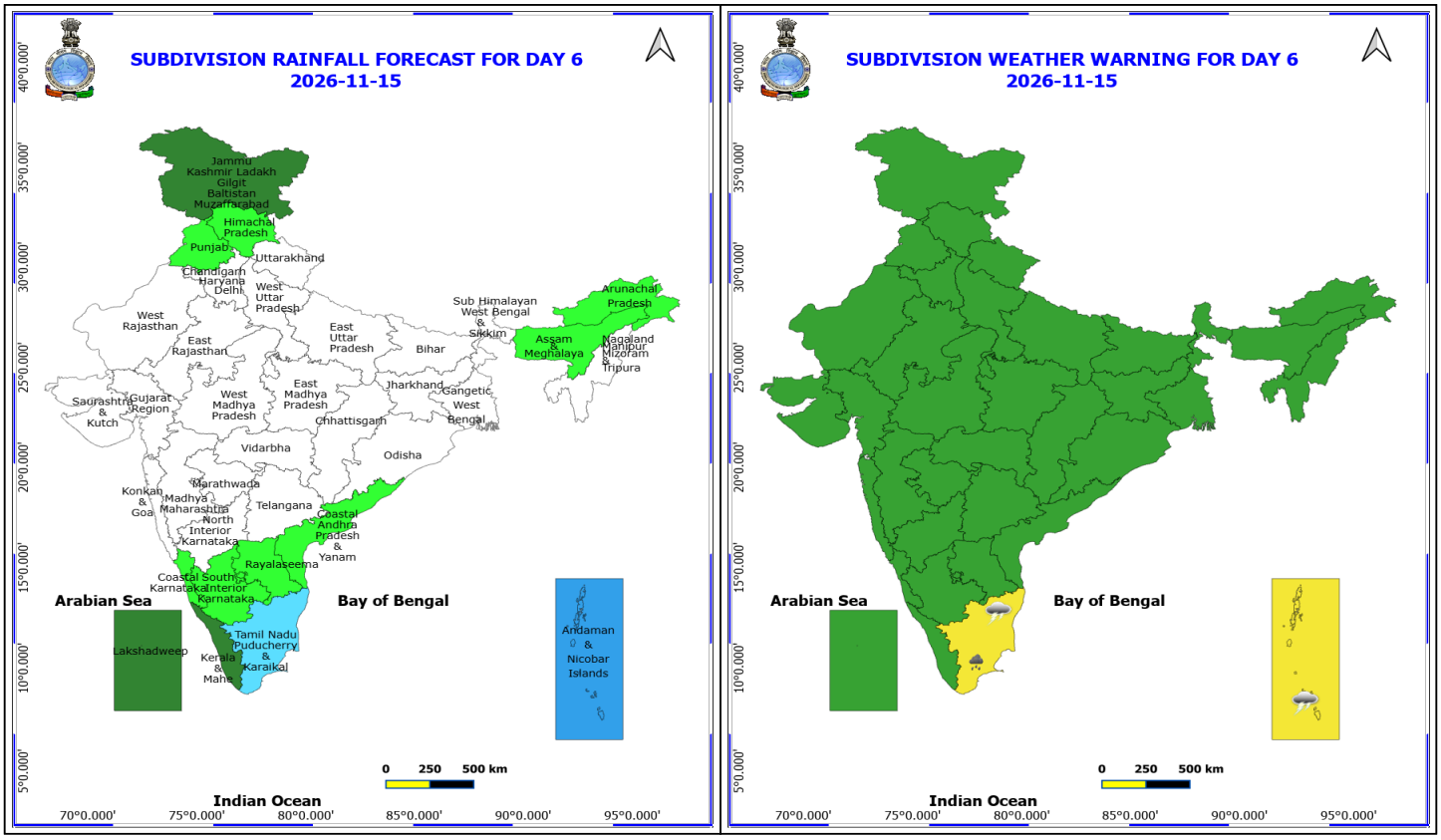
14 November (Day 5)

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

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

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

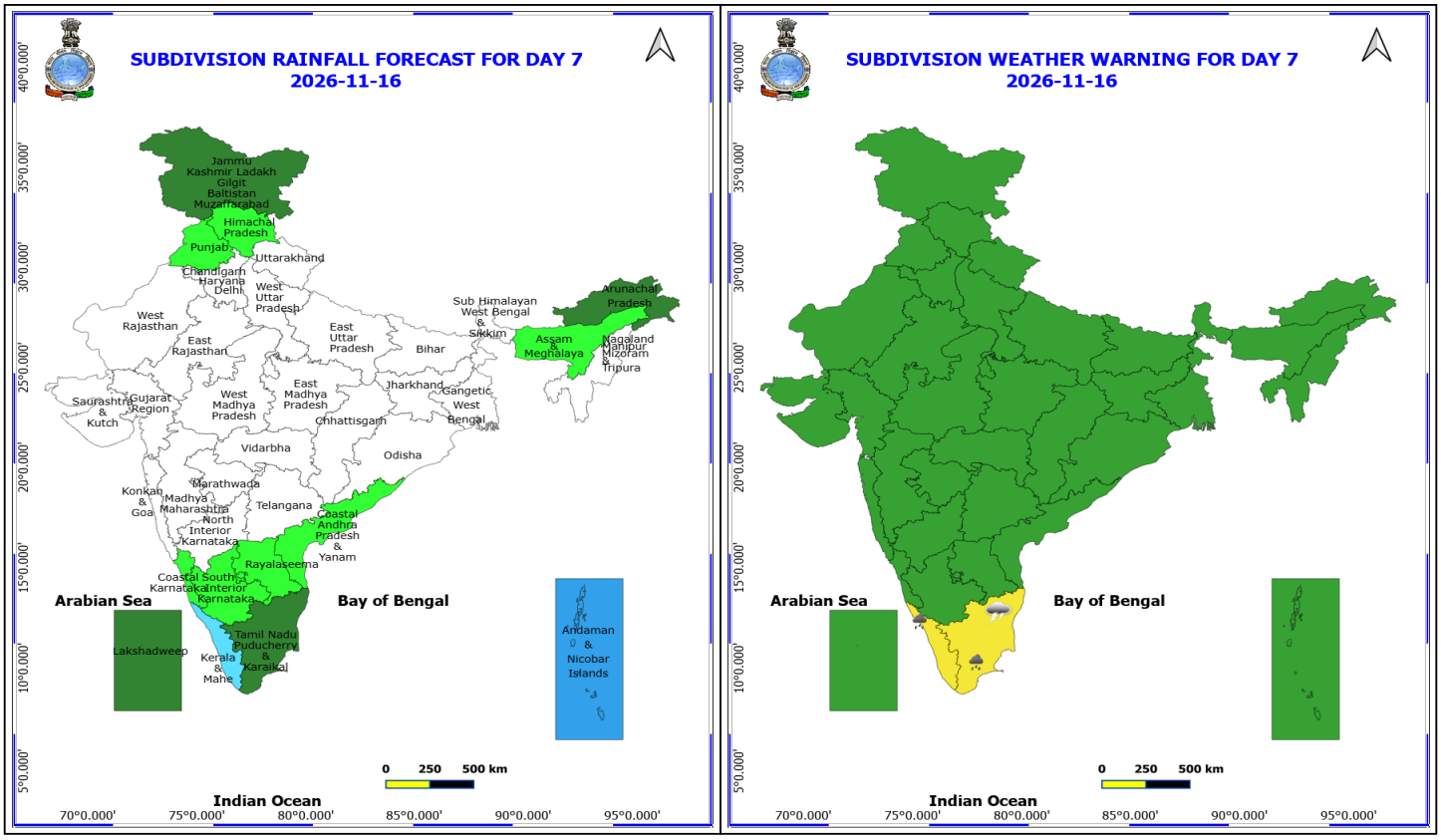


15 November (Day 6)

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

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

No Fishermen Warning



16 November (Day 7)

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

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Tamil Nadu Puducherry & Karaikal.

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

No Fishermen Warning

Table-1

7 Days Rainfall Forecast

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

*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 2026-11-10

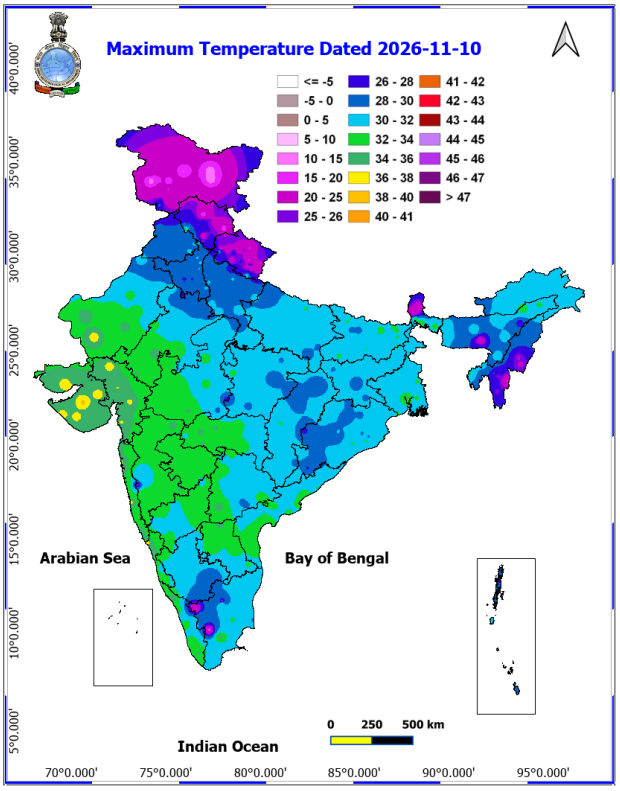


Fig. 2: Departure of Maximum Temp. Dated 2026-11-10

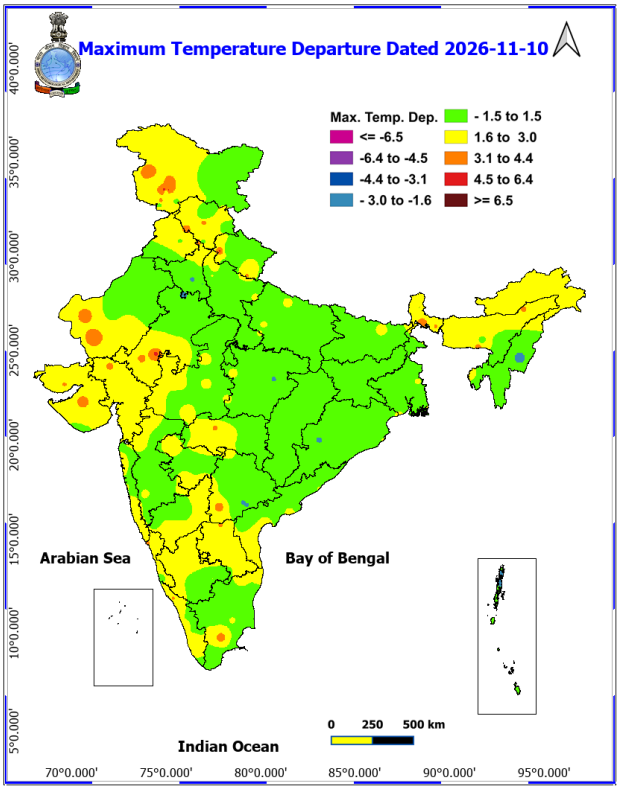


Fig. 3: Minimum Temperatures Dated 2026-11-10

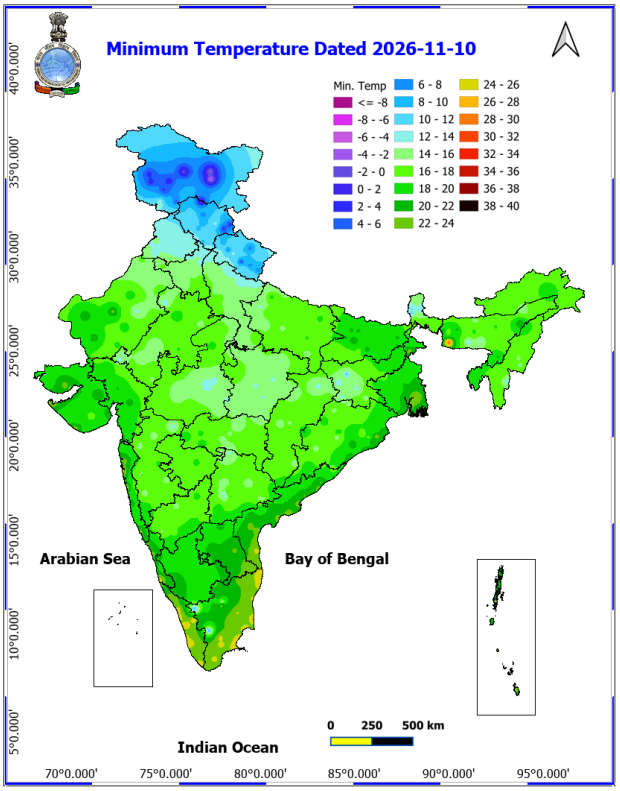
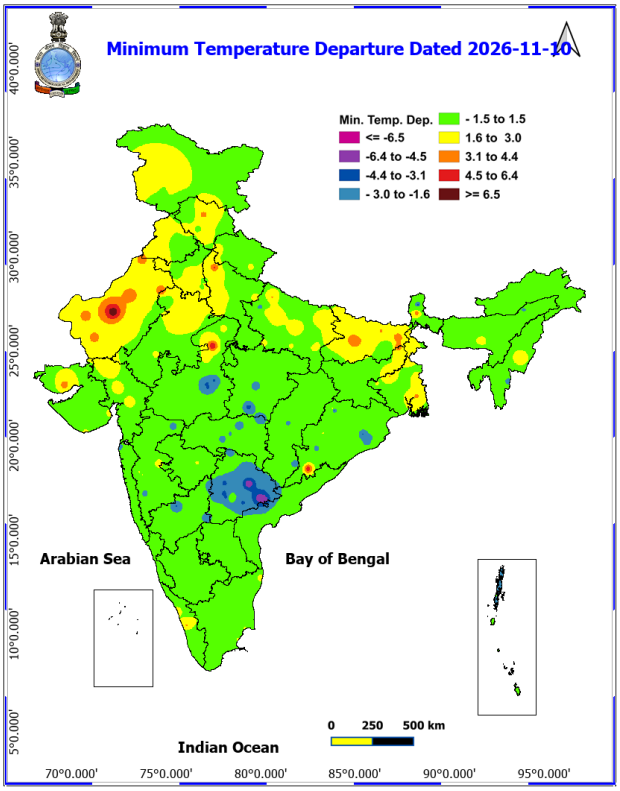
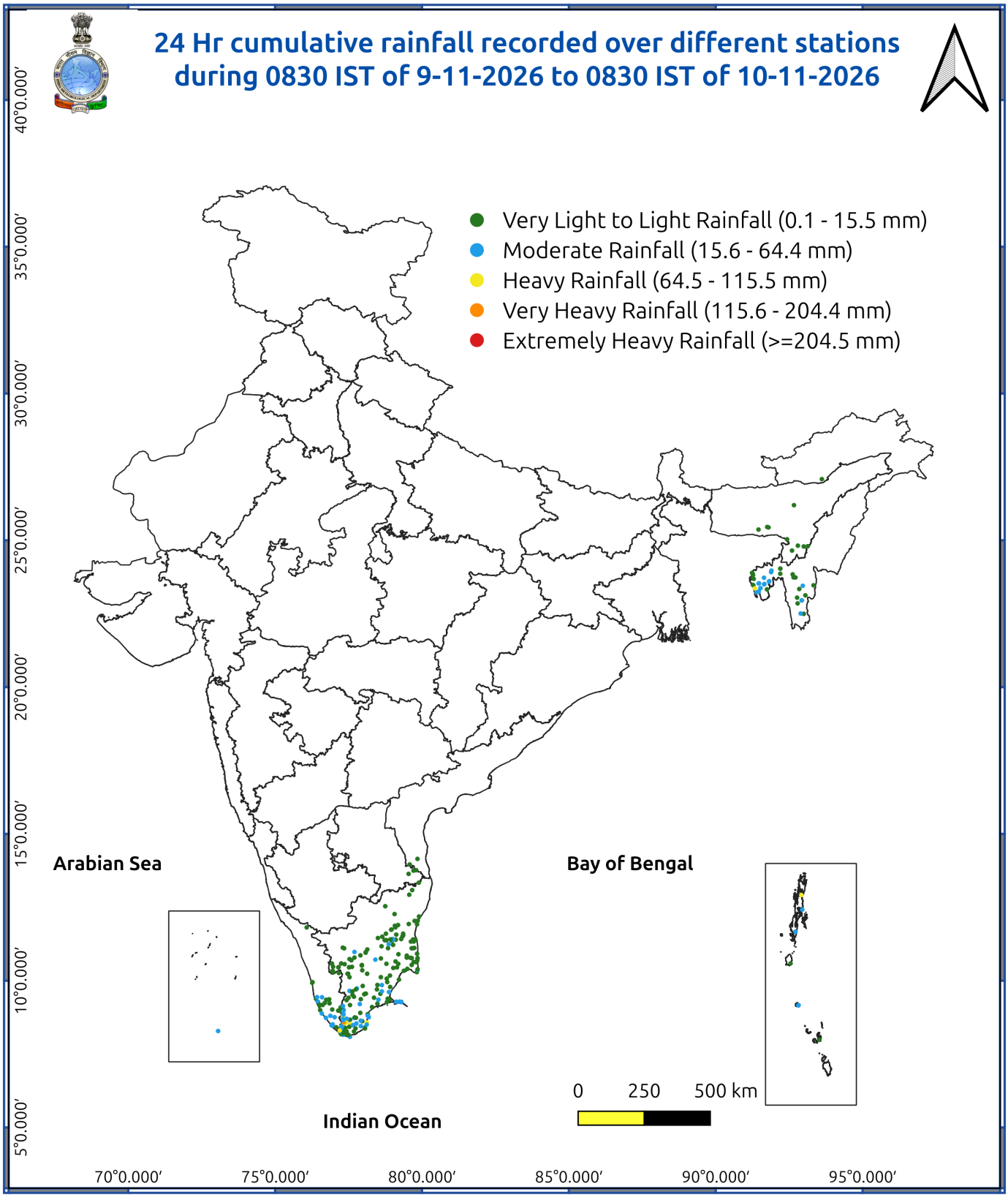


Fig. 4: Departure of Minimum Temp. Dated 2026-11-10



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 9-11-2026 to 0830 IST of 10-11-2026



Impace and Actions

Impact Expected and Action Suggested due to heavy rainfall:

- Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal on 10th, 11th, 15th & 16th November; Kerala & Mahe on 16th November; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 12th November; Andaman & Nicobar Islands during 10th-14th November;Nagaland, Manipur, Mizoram & Tripura on 10th 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.
- Helicopter services to be regulated.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Heavy Rainfall

- In **Tamil Nadu**, 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
- Keep the harvested paddy and groundnut to safe and dry place. Postpone irrigation, intercultural operations, fertilizer application and plant protection sprays 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

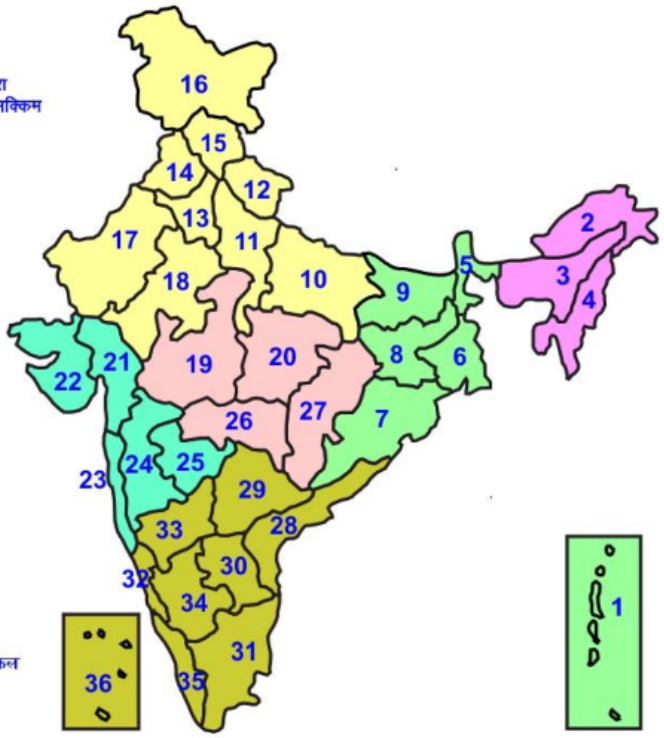
- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables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