राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

2026-11-13
Time of Issue: 20:58:00 hours IST
(Night)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Systems, Forecast and Warnings

Northwest India:

- **Fairly Widespread to Widespread** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 13th November.
- **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 14th-15th November; Himachal Pradesh and Uttarakhand during 13th-15th November.
- **Isolated to Scattered** rainfall likely over Haryana Chandigarh & Delhi and Punjab during 13th-14th November; West Rajasthan and West Uttar Pradesh during 14th-15th November; East Rajasthan on 15th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 13th-14th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over West Rajasthan during 14th-15th November.
- Isolated **thunderstorm & lightning** likely over Himachal Pradesh on 13th November.

East India:

- **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 13th-19th November.
- **Isolated to Scattered** rainfall likely over Gangetic West Bengal and Odisha during 18th-19th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Andaman & Nicobar Islands during 13th-17th November, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Andaman & Nicobar Islands during 18th-19th November; Gangetic West Bengal on 19th November.
- Isolated **heavy rainfall** likely over Andaman & Nicobar Islands during 13th-16th November; Odisha on 18th & 19th November.

South Peninsular India:

- **Isolated to Scattered** rainfall likely over Tamil Nadu, Puducherry & Karaikal during 13th-14th November and during 16th-19th November; Kerala & Mahe during 13th-15th November; Lakshadweep during 13th-19th November; Coastal Andhra Pradesh & Yanam and Rayalaseema during 14th-19th November.
- **Fairly Widespread to Widespread** rainfall likely over Tamil Nadu, Puducherry & Karaikal on 15th November; Kerala & Mahe during 16th-19th November.
- Isolated **heavy rainfall** likely over Coastal Andhra Pradesh & Yanam on 18th & 19th November.

West, Central and Northeast India:

- **No significant weather likely over West, Central and Northeast India during the week**.

Warnings:

(i) Rainfall Warning:

Andaman & Nicobar Islands: Light to moderate rainfall at many places with **heavy rainfall** at isolated places during 13th to 16th November.

Windwarning:

Andaman Sea and along & off Andaman & Nicobar Islands:

- Squally weather with wind speed reaching 40-50 gusting to 60 kmph is very likely to prevail till 17th November.

Southeast Bay of Bengal:

- Squally weather with wind speed reaching 40-50 gusting to 60 kmph is very likely to prevail on 14th & 15th November. It is likely to increase becoming Squally wind 50-60 kmph gusting to 70 kmph on 16th & 17th November.

Southwest Bay of Bengal:

- Squally weather with wind speed reaching 40-50 gusting to 60 kmph is very likely to prevail on 14th becoming squally wind speed reaching 45-55 gusting to 65 kmph on 15th November. It is likely to increase becoming Squally wind 50-60 kmph gusting to 70 kmph on 16th November and Gale wind speed reaching 60-70 kmph gusting to 80 kmph from 17th November for subsequent 24 hours.

Central Bay of Bengal:

- Squally wind speed reaching 45-55 gusting to 65 kmph is likely to prevail on 16th November. It is likely to increase becoming Gale wind speed reaching 65-75 kmph gusting to 80 kmph from 17th November for subsequent 2 days.

Seacondition:

Andaman Sea and along & off Andaman & Nicobar Islands:

- Rough to very rough sea condition is very likely to prevail till 17th November.

Southeast Bay of Bengal:

- Rough to very rough sea condition is very likely till 17th November

Southwest Bay of Bengal:

- Rough to very rough sea condition is very likely till 15th November, becoming very rough to high on 16th November and high from 17th November for subsequent 24 hours.

Central Bay of Bengal:

- Rough to very rough sea condition is very likely on 16th November. It is likely to deteriorate becoming high from 17th November for subsequent 2 days.

Fishermanwarning:

- Fishermen out at sea are advised to return to coasts by 15th November, 2026.
- Fishermen are advised not to venture into
- Andaman Sea and along & off Andaman & Nicobar Islands till 17th November.
- Southeast Bay of Bengal from till 17th November.
- Southwest Bay of Bengal during 15th – 18th November.
- Central Bay of Bengal during 16th – 19th November.

Main Weather Observations:

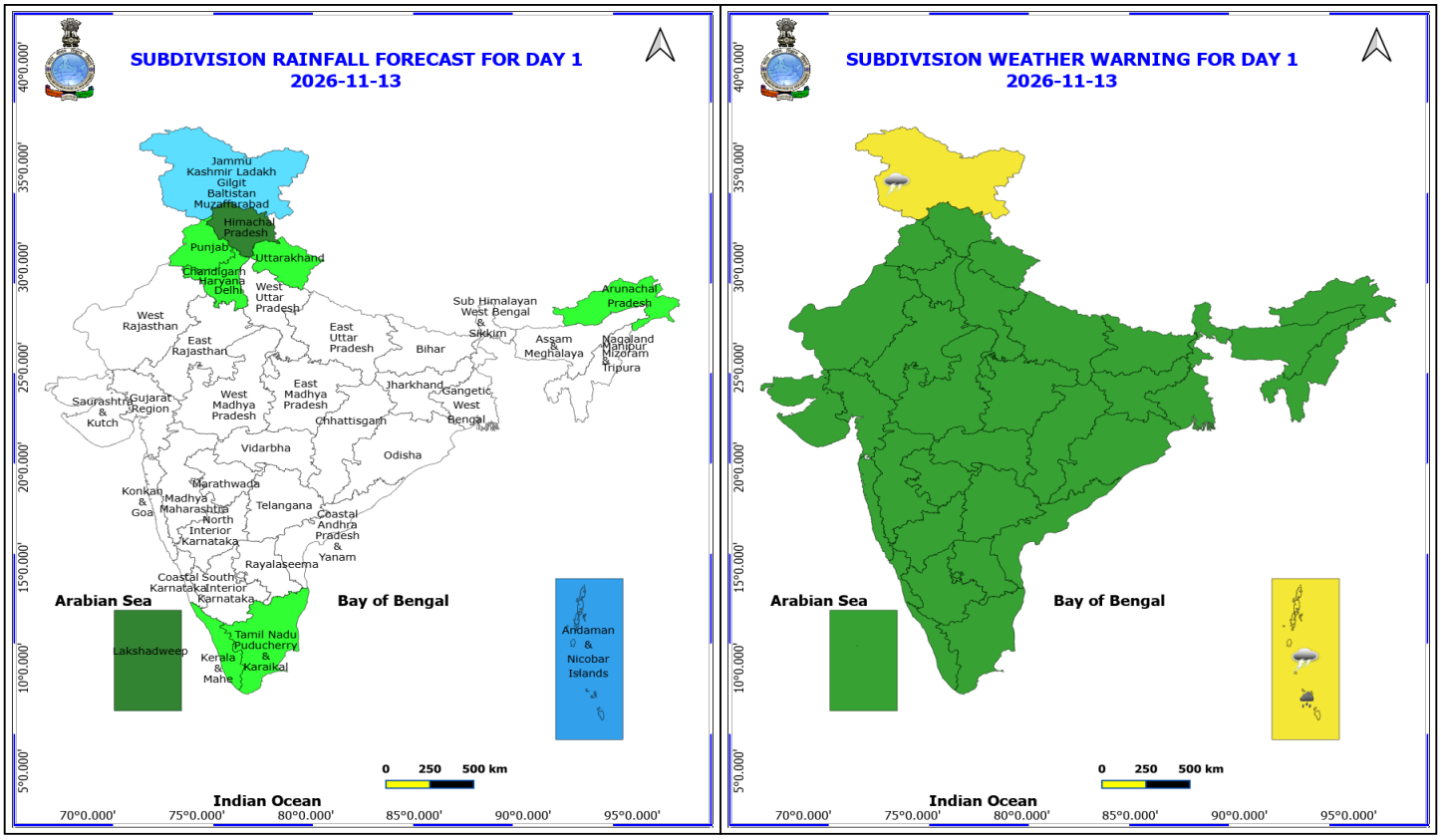
❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of today): **at many places** over Andaman & Nicobar Islands, Himachal Pradesh, Jammu & Kashmir and Ladakh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamilnadu Puducherry & Karaikal; **Dry** over rest of the country.
❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST to 1730 hours IST of today): **Andaman & Nicobar Islands**: Long Island (dist North And Middle Andaman), Car Nicobar, Nancowry (dist Nicobar) 1 Each; Jammu & Kashmir And Ladakh: Gulmarg (dist Baramulla) 1.

❖ **Minimum Temperature Departures (as on 13-11-2026): below normal(-1.6°C to -3.0°C)** at many places over South Interior Karnataka; at few places over Konkan & Goa, Chhattisgarh, Telangana, North Interior Karnataka and Kerala & Mahe; at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Bihar, Himachal Pradesh, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Saurashtra & Kutch, Madhya Maharashtra, Vidarbha, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. **appreciably below normal(-5.0°C to -3.1°C)** at many places over North Interior Karnataka; at few places over Gangetic West Bengal, Vidarbha, Telangana, Rayalaseema and Coastal Karnataka; at isolated places over Assam & Meghalaya, Jharkhand, Bihar, East Uttar Pradesh, West Madhya Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **markedly below normal(< -5.0°C)** at few places over East Madhya Pradesh and Coastal Karnataka; at isolated places over Odisha, East Uttar Pradesh, West Uttar Pradesh, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. **The lowest minimum temperature** of 11.0°C was reported at AMBIKAPUR (CHHATTISGARH) over the Plains of India.

❖ **Maximum Temperature Departures (as on 13-11-2026): The highest maximum temperature** of 37.0°C was reported at RAJKOT (A) (GUJARAT).

Meteorological Analysis (Based on 1730 hours IST)

- The **low pressure area** over Southeast Bay of Bengal persists over the same region at 1730 hours IST of today, the 13th November, 2026. The associated **cyclonic circulation** extends upto 5.8 km above mean sea level. It is very likely to move northwestwards, become **well marked low pressure area** on 14th November and intensify into a **depression** over the same region around morning of 15th November, 2026. Thereafter, it is likely to move north-northwestwards and intensify further into a **cyclonic storm** over the central Bay of Bengal around 16th November evening.
- The east-west **trough** from the cyclonic circulation associated with the above **Low-Pressure Area** over Southeast Bay of Bengal to northern parts of Maldives across Southwest Bay of Bengal & adjoining equatorial Indian Ocean and extending upto 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over Eastcentral Arabian Sea & adjoining northern parts of Lakshadweep at 3.1 km above mean sea level persists.
- The **Western Disturbance** as a **trough** in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along long 73°E to the north of Lat 32°N persists.
- A **Fresh Western Disturbance** is likely to affect Northwest India from 15th November, 2026.



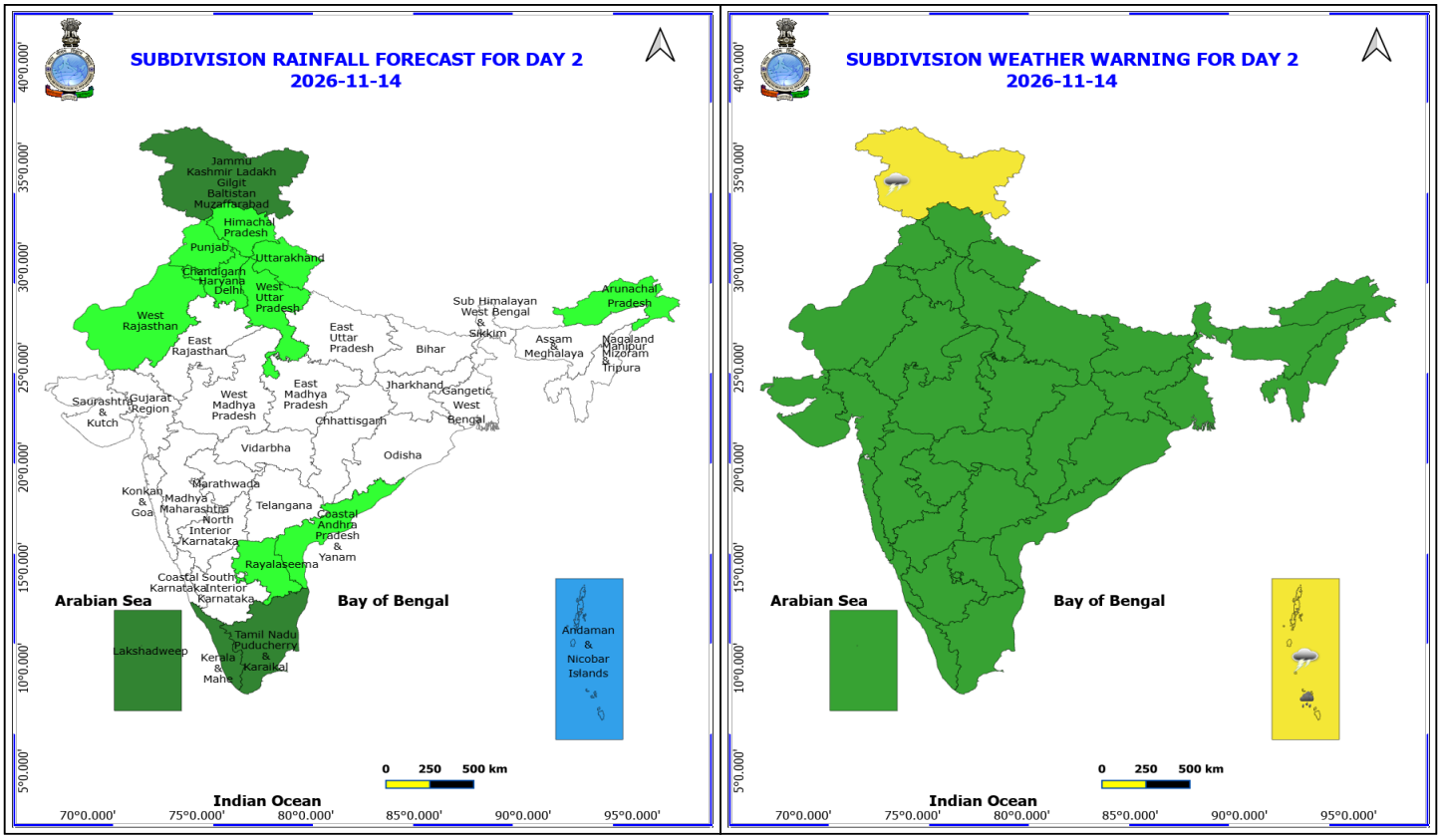
13 November (Day 1)

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

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

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

❖ **Fishermen are advised not to venture into** Andaman Sea and along & off Andaman & Nicobar Islands, Southeast Bay of Bengal.



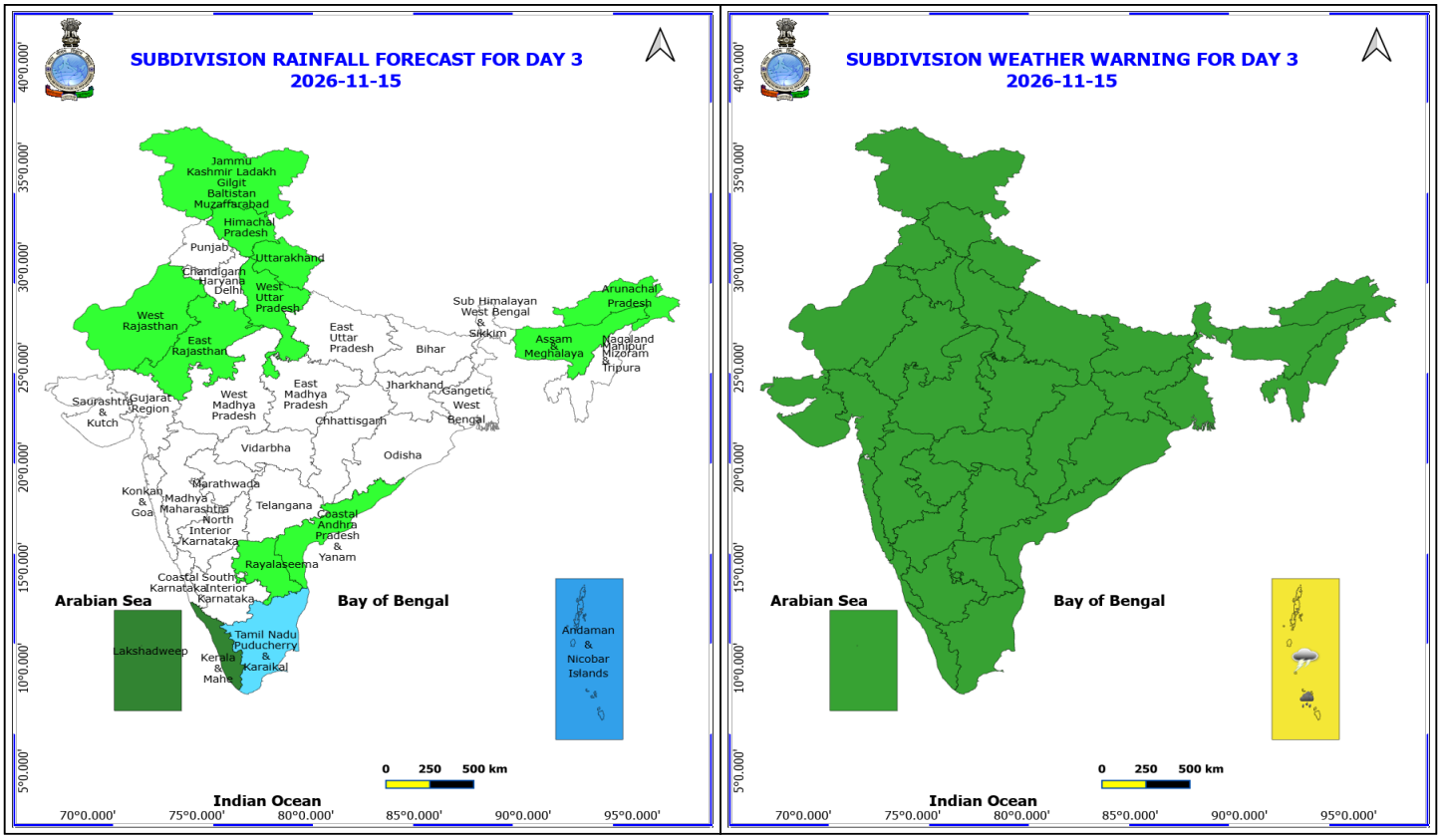
14 November (Day 2)

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

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

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

❖ Fishermen are advised not to venture into Andaman Sea and along & off Andaman & Nicobar Islands, Southeast Bay of Bengal.



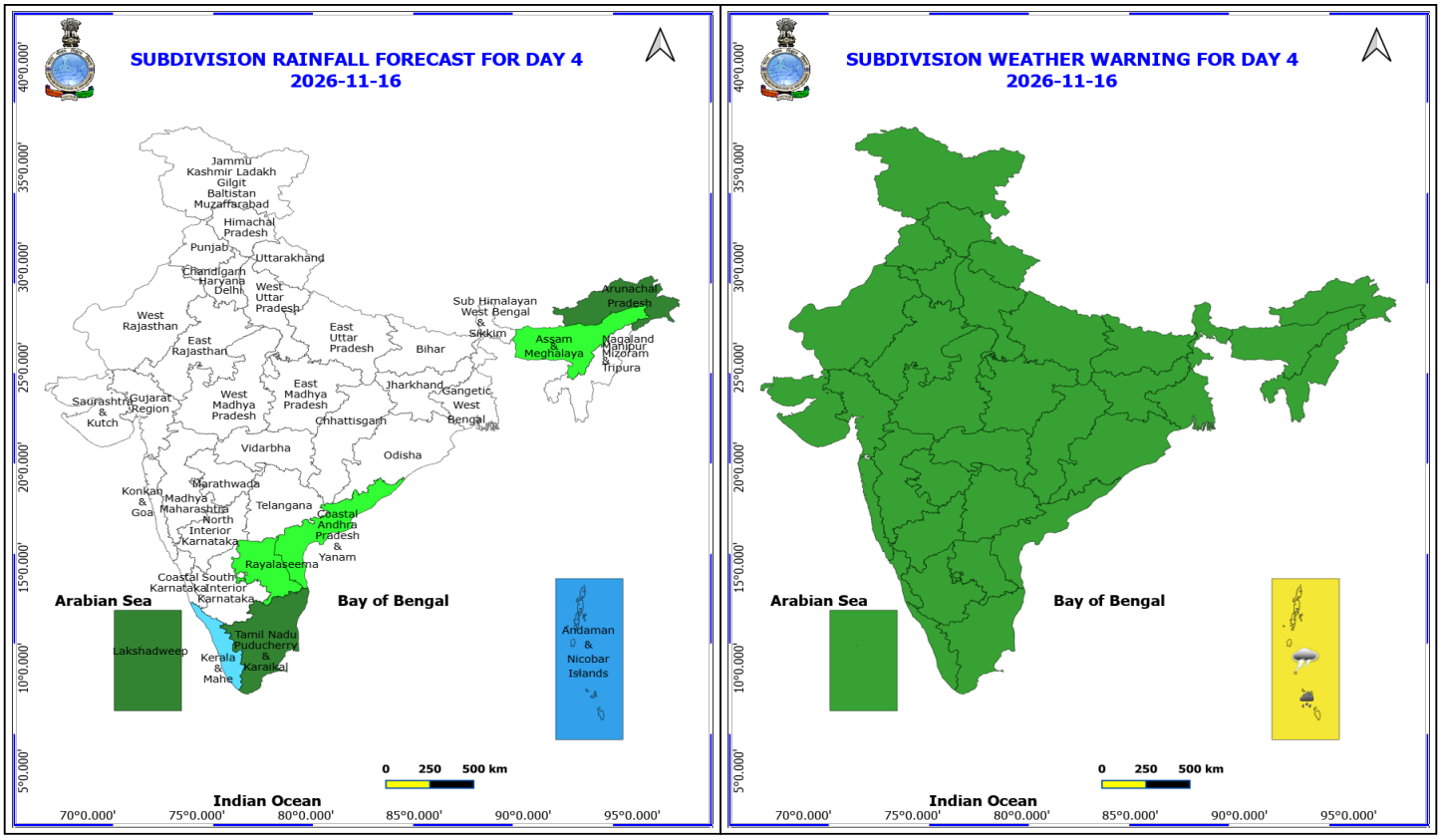
15 November (Day 3)

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

❖ **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 West Rajasthan.

❖ Fishermen are advised not to venture into Andaman Sea and along & off Andaman & Nicobar Islands, Southeast Bay of Bengal, Southwest Bay of Bengal.

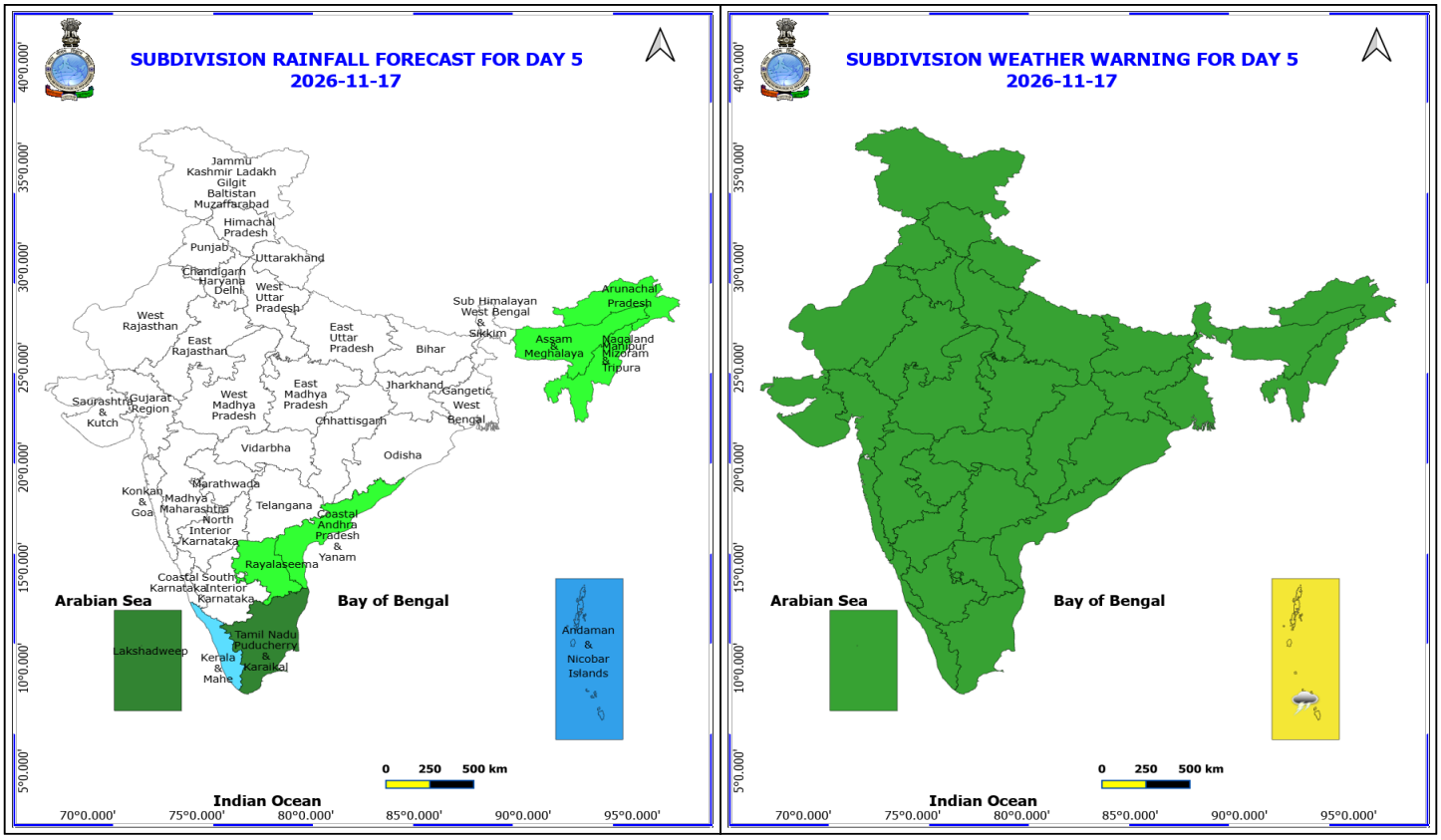


16 November (Day 4)

❖ **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.

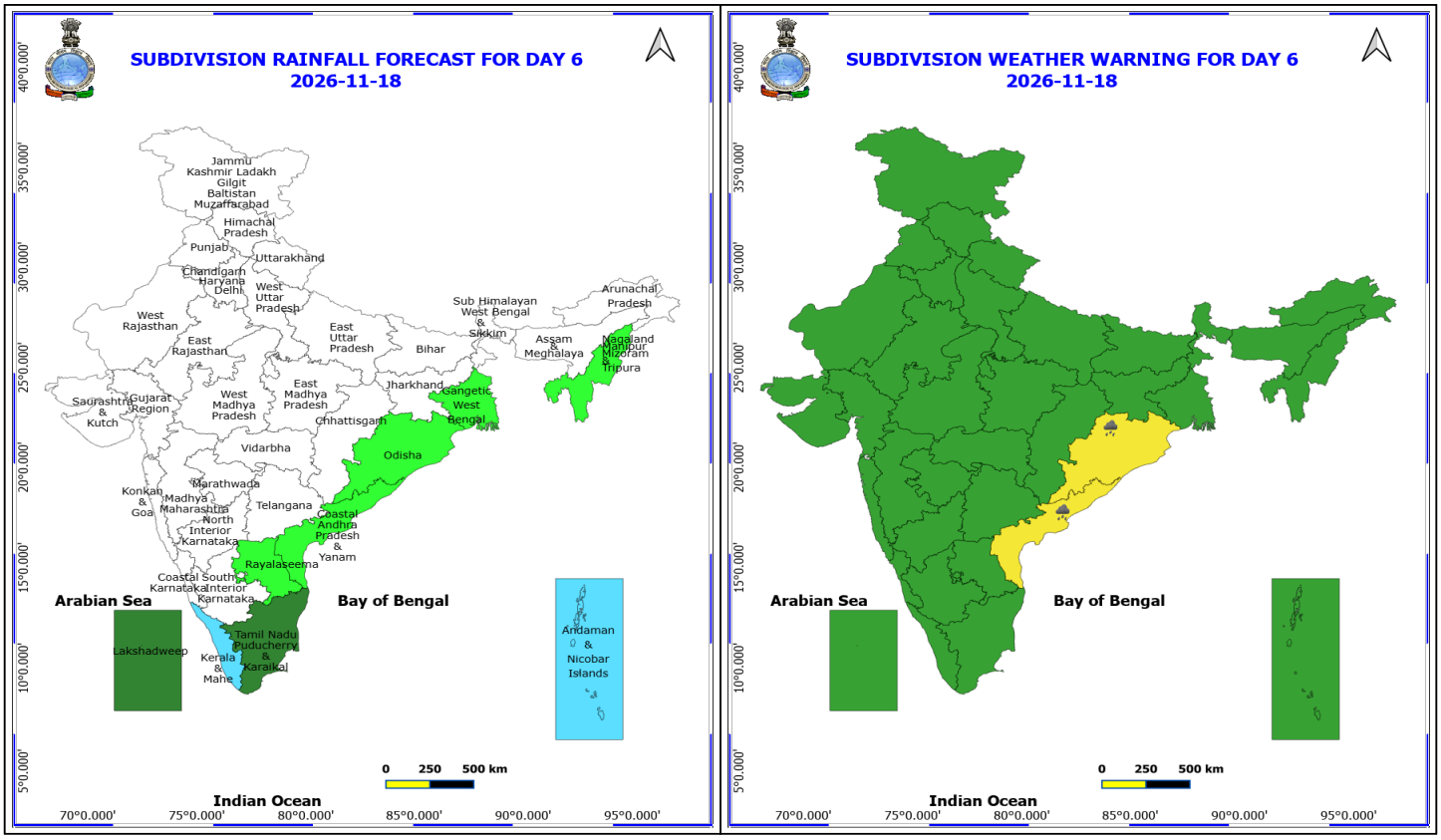
❖ Fishermen are advised not to venture into Andaman Sea and along & off Andaman & Nicobar Islands, Southeast Bay of Bengal, Southwest Bay of Bengal and Central Bay of Bengal.



17 November (Day 5)

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

❖ Fishermen are advised not to venture into Andaman Sea and along & off Andaman & Nicobar Islands, Southeast Bay of Bengal, Southwest Bay of Bengal and Central Bay of Bengal.

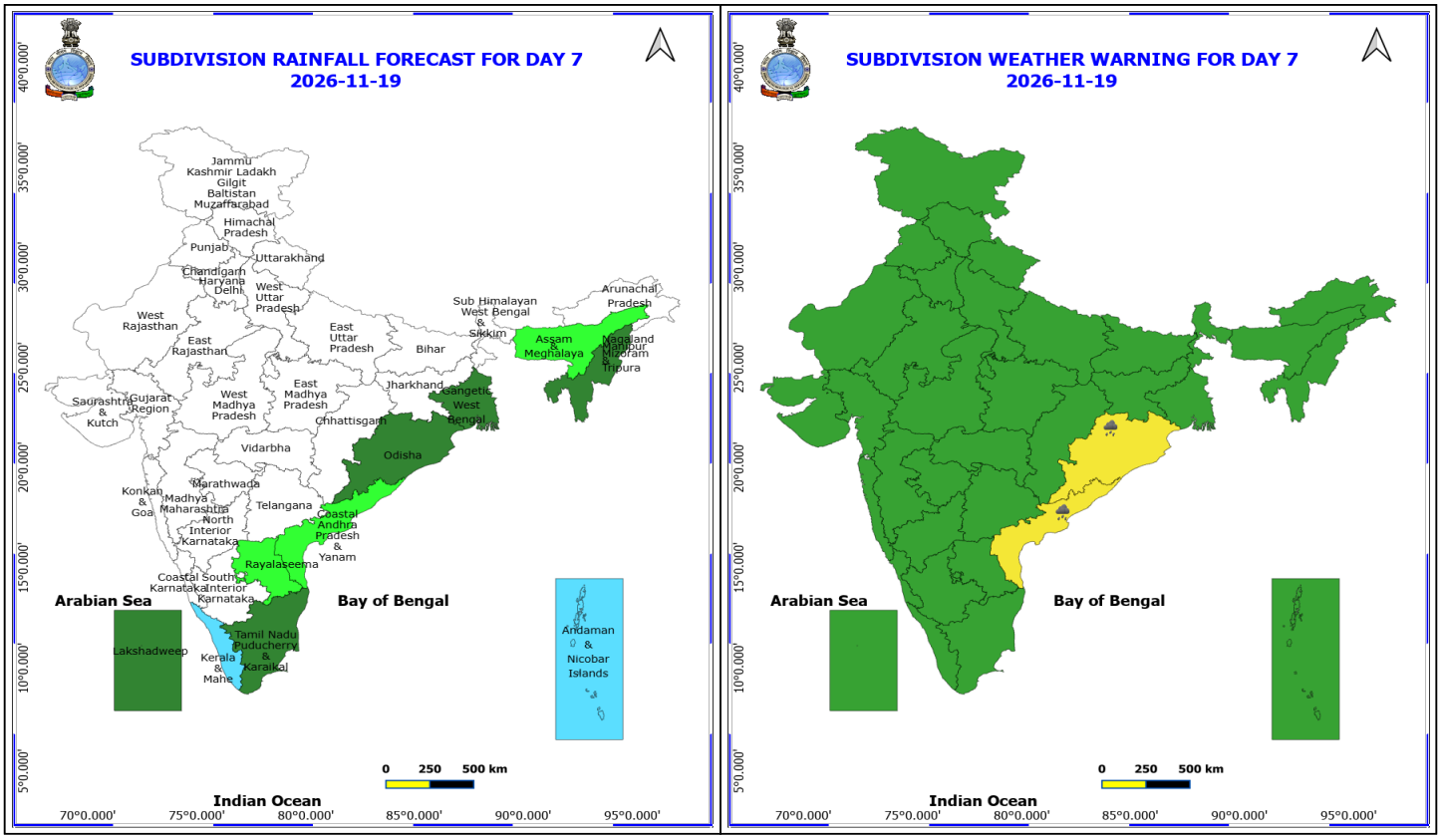


18 November (Day 6)

❖ **Heavy Rainfall** likely at isolated places over Coastal Andhra Pradesh and Odisha.

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

No Fishermen Warning



19 November (Day 7)

❖ **Heavy Rainfall** likely at isolated places over Coastal Andhra Pradesh and Odisha.

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

No Fishermen Warning

Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	FWS	FWS
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	SCT	ISOL	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	ISOL	ISOL	ISOL	DRY	ISOL
4	N. M. M. & T.	DRY	DRY	DRY	DRY	ISOL	ISOL	SCT
5	S.H. WEST BENGAL & SIKKIM	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	ISOL	SCT
7	ODISHA	DRY	DRY	DRY	DRY	DRY	ISOL	SCT
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	ISOL	ISOL	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
13	HARYANA, CHD & DELHI	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	FWS	SCT	ISOL	DRY	DRY	DRY	DRY
17	WEST RAJASTHAN	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL	SCT	FWS	SCT	SCT	SCT	SCT
32	COSTAL KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
35	KERALA	ISOL	SCT	SCT	FWS	FWS	FWS	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 2026-11-13

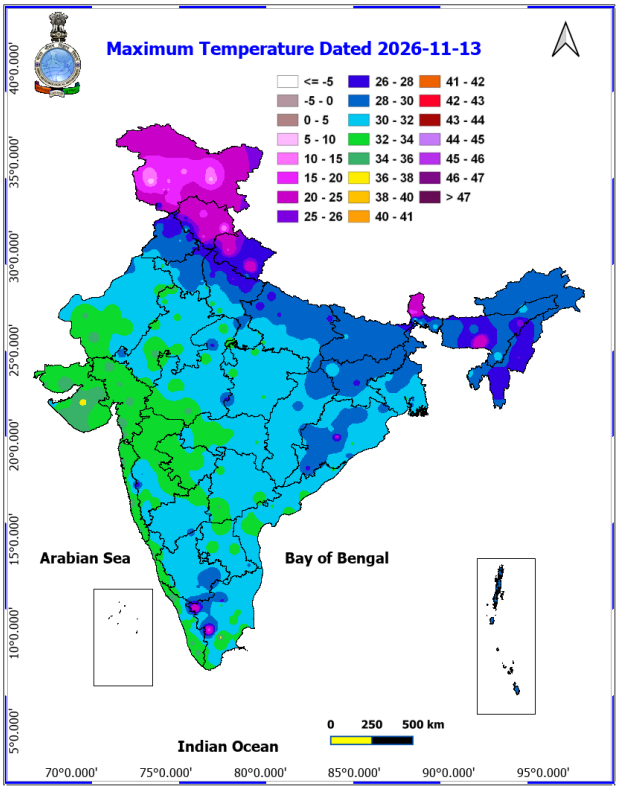


Fig. 2: Departure of Maximum Temp. Dated 2026-11-13

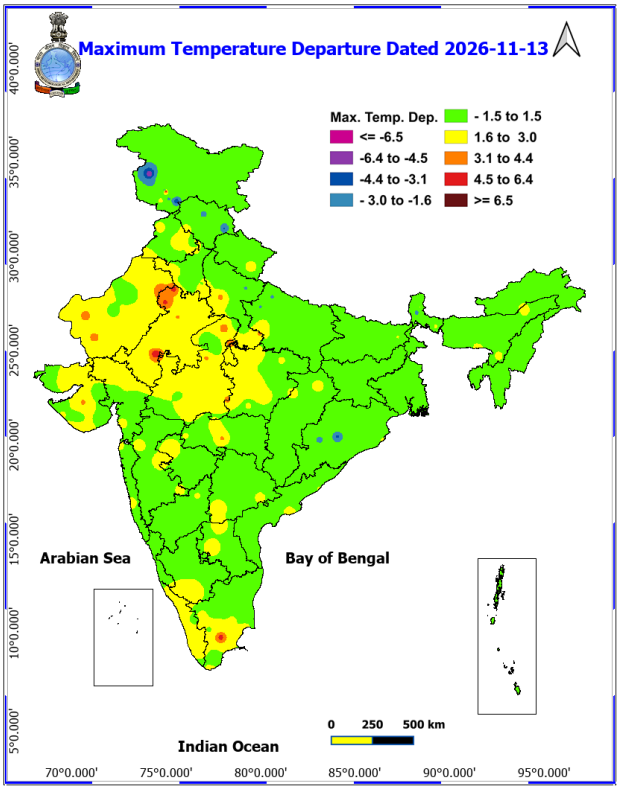


Fig. 3: Minimum Temperatures Dated 2026-11-13

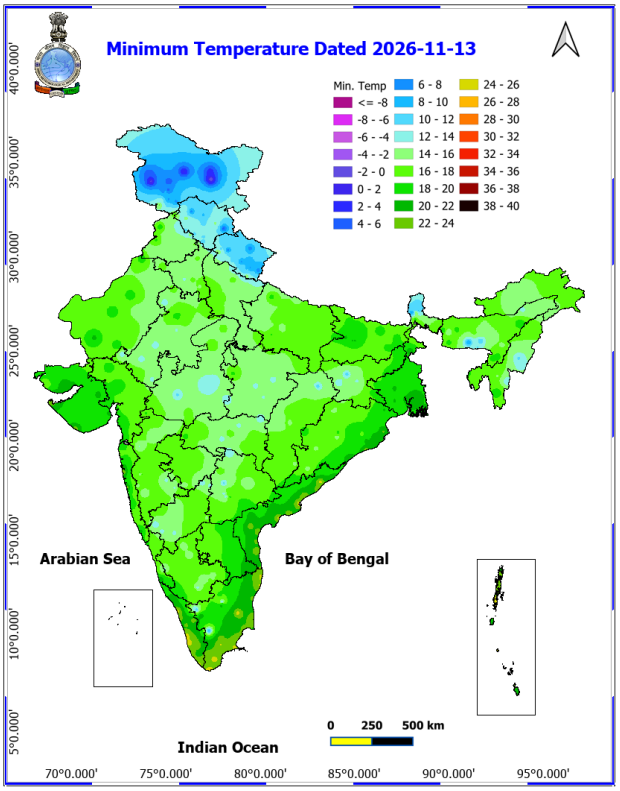
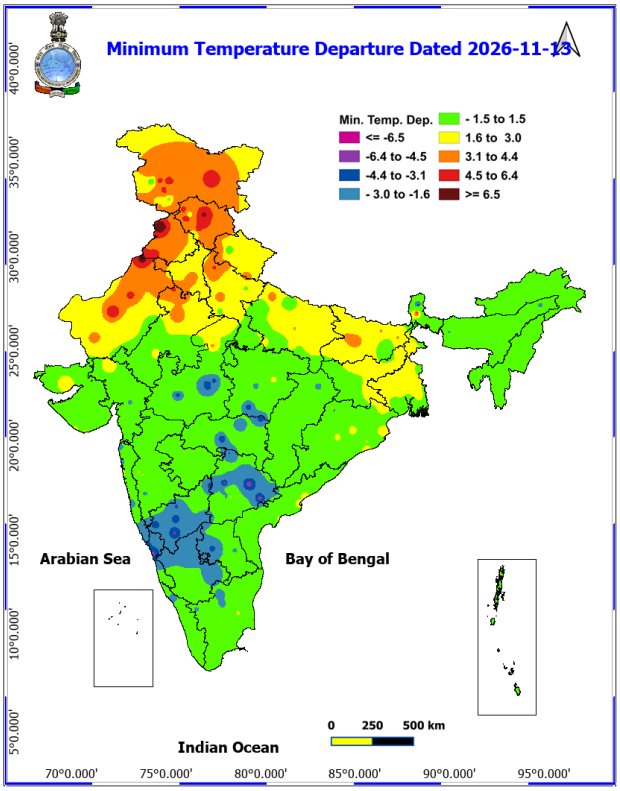
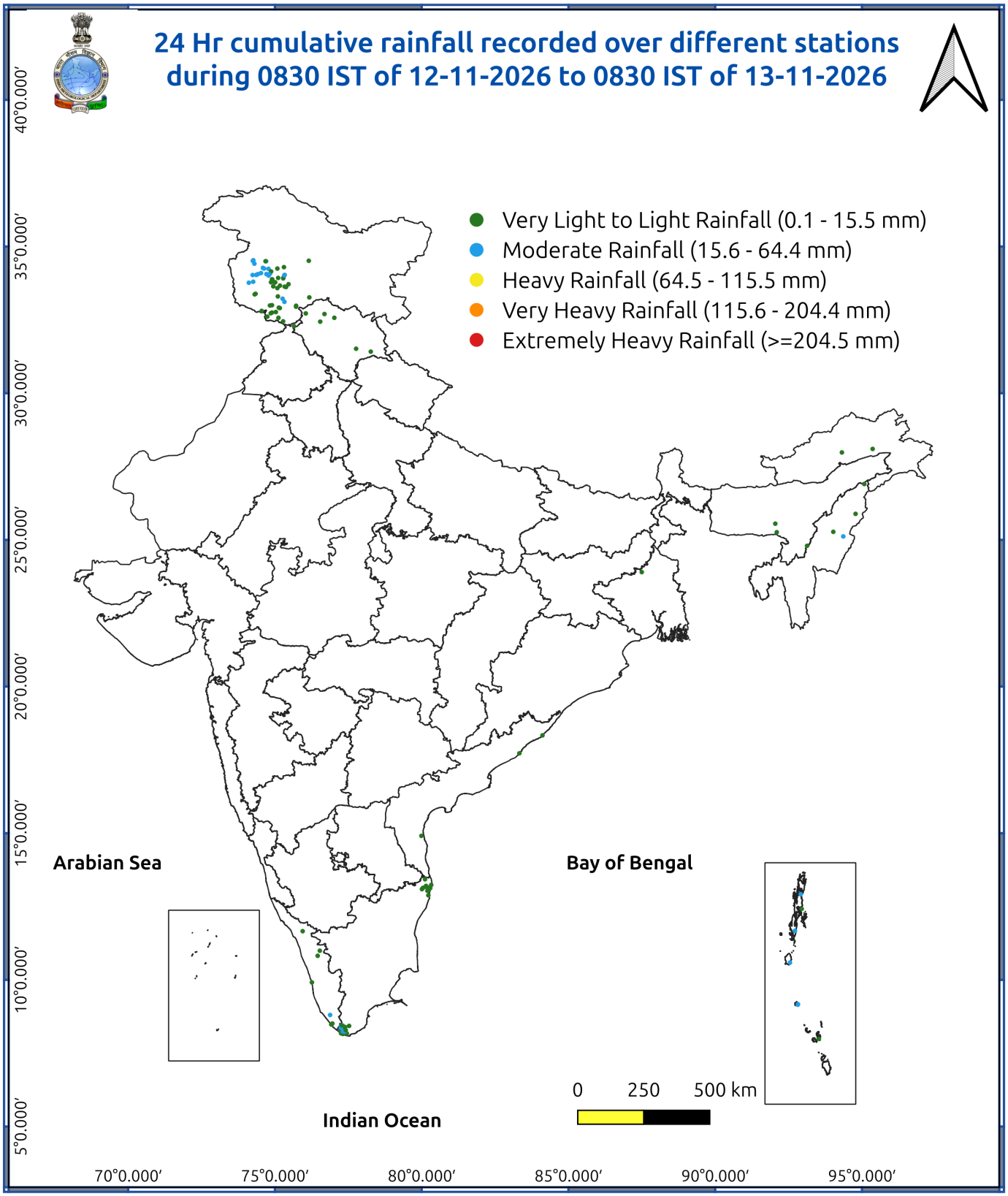


Fig. 4: Departure of Minimum Temp. Dated 2026-11-13



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 12-11-2026 to 0830 IST of 13-11-2026



Impace and Actions

Impact Expected and Action Suggested due to heavy rainfall:

- **Isolated very heavy rainfall likely over Coastal Andhra Pradesh & Yanam and Odisha on 19th November.**
- **Isolated heavy rainfall likely over Coastal Andhra Pradesh & Yanam and Odisha on 18th 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 **Andaman and Nicobar Islands**, ensure proper drainage in rice fields and plantations of arecanut, coconut and black pepper. Ensure pond outlets are clear and secure to prevent fish escape; suspend fish feeding during heavy rainfall and resume gradually after the rain subsides. 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.

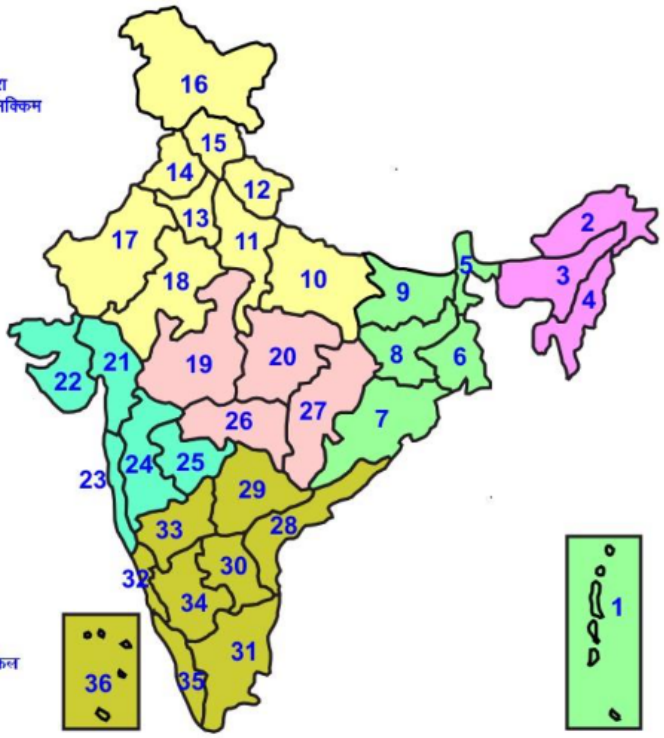
Legends & abbreviations:

Region wise classification of meteorological Sub-Divisions:

- **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana Chandigarh & Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **West India:** Gujarat Region, Saurashtra & Kutch, Coastal Maharashtra (Konkan) & Goa, Madhya Maharashtra and Marathawada.
- **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Keralam & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

LEGENDS

1 अंडमान और निकोबार द्वीप समुह
2 अरुणाचल प्रदेश
3 असम और मेघालय
4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
5 उप हिमालय पश्चिम बंगाल एंवम् सिक्किम
6 पश्चिम गांगेय बंगाल
7 ओडिसा
8 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)