राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

2026-11-17
Time of Issue: 16:30:00 hours IST
(Evening)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather system, Forecast and Warnings:

- The **Cyclonic Storm "Akvan" [Pronunciation: Akvan]** over central parts of South and adjoining Westcentral Bay of Bengal moved slowly north-northwestwards with the speed of 03 kmph during past 06 hours and lay centered at 1130 hours IST of today, the 17th November, 2026 over the same region, near Latitude 12.3°N and Longitude 85.7°E, about 600 km east of Chennai (Tamil Nadu), 640 km northeast of Trincomalee (Sri Lanka), 650 km southeast of Machilipatnam (Andhra Pradesh), 660 km south-southeast of Visakhapatnam (Andhra Pradesh) and 780 km south of Gopalpur (Odisha). It is very likely to move slowly north-northwestwards and intensify further into a **Severe Cyclonic Storm** over westcentral Bay of Bengal around evening of today, the 17th November, 2026. Thereafter, it is likely to move northwestwards and intensify further into a **Very Severe Cyclonic Storm** around 19th November morning. Continuing to move northwestwards, it is likely to cross Andhra Pradesh & Yanam coasts between Nellore and Visakhapatnam, around noon of 20th November, 2026 as a **Very Severe Cyclonic Storm** with the maximum sustained wind speed of 120-130 kmph gusting to 145 kmph.

South Peninsular India:

- **Isolated to Scattered** rainfall likely over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal during 17th-23rd November; Lakshadweep during 22nd-23rd November; Coastal Karnataka, North Interior Karnataka and South Interior Karnataka during 21st-23rd November; Coastal Andhra Pradesh & Yanam on 18th November and during 22nd-23rd November; Rayalaseema during 18th-19th November and during 21st-23rd November; Telangana on 19th November and during 22nd-23rd November.
- **Fairly Widespread to Widespread** rainfall likely over Coastal Andhra Pradesh & Yanam during 19th-21st November; Rayalaseema on 20th November; Telangana during 20th-21st November.
- Isolated thunderstorm, lightning & gusty winds (speed reaching 80-90 kmph) likely over Coastal Andhra Pradesh & Yanam during 19th-20th November, with gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) likely over Tamil Nadu, Puducherry & Karaikal during 18th-20th November; Coastal Andhra Pradesh & Yanam on 21st November; Rayalaseema during 18th-21st November.
- Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal on 19th November; Coastal Andhra Pradesh & Yanam on 18th November and on 21st November; Rayalaseema during 19th-20th November with isolated **very heavy rainfall** also likely over Telangana during 20th-21st November.
- **Heavy to very heavy rainfall at a few places with isolated extremely heavy rainfall likely over Coastal Andhra Pradesh & Yanam during 19th-20th November.**
- **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph) likely over Coastal Andhra Pradesh & Yanam on 18th November with thundersquall (wind speed reaching 100-110 kmph gusting to 120 kmph) on 19th & 20th November.**

Central India:

- **Isolated to Scattered** rainfall likely over West Madhya Pradesh during 21st-22nd November; East Madhya Pradesh during 20th-23rd November; Vidarbha during 20th-22nd November; Chhattisgarh during 18th-19th November and during 22nd-23rd November.
- **Fairly Widespread to Widespread** rainfall likely over Chhattisgarh during 20th-21st November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over East Madhya Pradesh and Vidarbha on 21st November; Chhattisgarh during 20th-21st November.
- Isolated **heavy rainfall** likely over East Madhya Pradesh and Vidarbha on 21st November; Chhattisgarh during 20th-21st November.

East India:

- **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 17th-18th November;

Gangetic West Bengal and Odisha during 19th-21st November; Jharkhand during 20th-21st November.

- **Isolated to Scattered** rainfall likely over Andaman & Nicobar Islands during 19th-23rd November; Sub-Himalayan West Bengal & Sikkim on 17th November; Gangetic West Bengal and Odisha on 18th November and during 22nd-23rd November; Jharkhand on 19th November and during 22nd-23rd November; Bihar on 21st November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Odisha on 18th November, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Andaman & Nicobar Islands during 17th-20th November; Gangetic West Bengal during 19th-21st November.
- Isolated **heavy rainfall** likely over Gangetic West Bengal during 19th-21st November; Jharkhand during 20th-21st November; Odisha on 18th November with isolated **very heavy rainfall** also likely over Odisha during 19th-21st November.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Odisha during 19th-21st November.

West & Northeast India:

No significant weather likely over West & Northeast India during the week.

Fog warning:

- **Dense fog conditions** very likely over East Uttar Pradesh and West Uttar Pradesh during 17th-18th November; Haryana Chandigarh & Delhi and Punjab during 19th-21st November.

Wind warning:

- Southeast Bay of Bengal: Gale wind speed 70-80 kmph gusting to 90 kmph is prevailing. It is likely to becoming 80-90 kmph gusting to 100 kmph from morning of 17th November, 60-70 kmph gusting to 80 kmph on 18th November and decrease thereafter.
- Southwest Bay of Bengal: Gale wind speed reaching 65-75 kmph gusting to 85 kmph is prevailing. It is likely to becoming 70-80 kmph gusting 90 kmph from morning 17th and 100-110 kmph gusting to 120 kmph on 18th November, 60-70 kmph gusting to 80 kmph on 19th & 20th November.
- Westcentral Bay of Bengal: Gale wind speed reaching 70-80 kmph gusting to 90 kmph is prevailing. It is likely to increase becoming 100-110 kmph gusting to 120 kmph from 18th morning 120-130 kmph gusting to 145 kmph from 19th evening till landfall on 20th November. It will decrease gradually thereafter.
- Eastcentral Bay of Bengal: Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail till 18th November evening and decease thereafter.
- Northwest Bay of Bengal: Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail from night of 18th November, likely to increase becoming 50-60 gusting to 70 kmph from 19th morning till 20th November.
- Along & off North Tamil Nadu & Puducherry coasts: Squally wind speed reaching 40-50 gusting to 60 kmph till 18th November and 50-60 gusting to 70 kmph on 19th & 20th November.
- Along & off Andhra Pradesh & Yanam coasts: Squally wind speed reaching 40-50 gusting to 60 kmph till 17th November. It is likely to increase gradually becoming gale wind speed reaching 60-70 gusting to 80 kmph from 18th November evening and 120-130 gusting to 145 kmph from 19th night till landfall on 20th November. It will decrease gradually thereafter.
- Along & off Odisha coast: Squally wind speed reaching 40-50 gusting 60 kmph is likely night of 18th November and likely to increase becoming 50-60 gusting to 70 kmph from 19th November morning till 20th November.

Sea condition:

- Southeast Bay of Bengal: Very rough to high sea condition is likely to prevail till 18th November and improve thereafter.
- Southwest Bay of Bengal: Very rough to high sea condition is prevailing and it is likely to deteriorate becoming high to very high till 20th November and improve thereafter.
- Westcentral Bay of Bengal: High Sea condition is prevailing; it is likely to deteriorate becoming high to very high from afternoon of 17th to 18th November and very high to phenomenal from 19th till landfall on 20th November.

It is likely to improve thereafter becoming very rough to rough by 21st November morning.

- Eastcentral Bay of Bengal: Rough to very rough sea condition is likely to prevail till 18th November.
- Northwest Bay of Bengal: Rough to very rough sea condition is very likely form night of 18th till 20th November.
- Along & off North Tamil Nadu & Puducherry coasts: Rough to very rough sea condition is very likely till 20th November.
- Along & off Andhra Pradesh & Yanam coasts: Rough to very rough sea condition is very likely on 17th November. It is likely to deteriorate gradually becoming very rough to high on 18th, high to very high on 19th November morning and phenomenal from 19th evening till landfall on 20th November. It is likely to improve becoming very rough to rough by 21st November morning.
- Along & off Odisha coast: Rough to very rough sea condition is very likely from 18th November night till 20th November.

Storm Surge Warning:

- Storm surge of 1.0 to 2.0 m height above astronomical tide is very likely to inundate low lying areas of Andhra Pradesh (Prakasam, Bapatla, Krishna, West Godavari, Konaseema and Kakinada districts) during the time of landfall. The peak surge is expected over Bapatla, Krishna and West Godavari districts from 20th morning till afternoon and improve gradually thereafter. However, storm surge of 0.5 m height above astronomical tide is likely to continue from early hours to evening of 20th November along and off above districts.

Fisherman warning: Fishermen are advised not to venture into

- Southeast Bay of Bengal from till 18th November.
- Southwest Bay of Bengal till 20th November.
- Westcentral Bay of Bengal till 20th November.
- Eastcentral Bay of Bengal till 18th November.
- Northwest Bay of Bengal during 19th - 20th November.

Main Weather Observations:

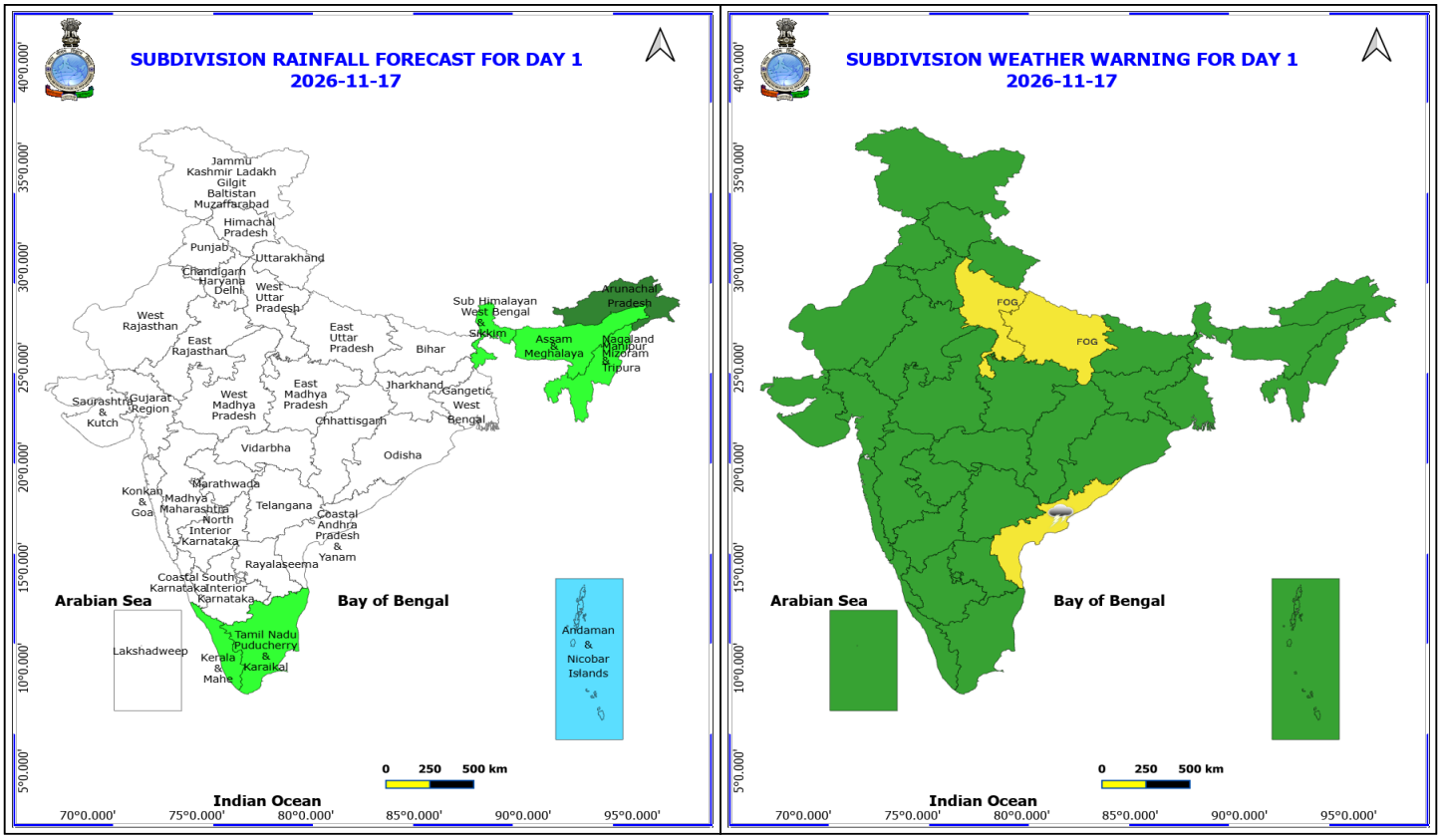
- **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Andaman & Nicobar Islands; **at a few places** over Sub Himalayan West Bengal & Sikkim; **at isolated places** over Kerala & Mahe; **Dry** over rest of the country.
- **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Sub Himalayan West Bengal & Sikkim**: Leesh River Tea Garden (dist Jalpaiguri) 3; Chalouni Tea Estate (dist Jalpaiguri), Washabari Tea Estate (dist Jalpaiguri) 2 Each.
- **Dense to very dense fog (visibility < 50 m)** reported in isolated pockets of West Uttar Pradesh and **Dense fog (visibility < 200 m)** in isolated pockets of Odisha.
- **Visibility reported(< 200 meters): Odisha:** Rourkela (dist Sundargarh) 50.0; **West Uttar Pradesh:** Bareilly (dist Bareilly) 00.

❖ **Minimum Temperature Departures (as on 17-11-2026): below normal(-1.6°C to -3.0°C)** at many places over Konkan & Goa and Marathwada; at few places over Madhya Maharashtra, Coastal Karnataka and South Interior Karnataka; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Bihar, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, East Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. **appreciably below normal(-5.0°C to -3.1°C)** at many places over Coastal Andhra Pradesh & Yanam and North Interior Karnataka; at few places over West Madhya Pradesh, Telangana and Coastal Karnataka; at isolated places over Assam & Meghalaya, Gangetic West Bengal, East Uttar Pradesh, West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. **markedly below normal(< -5.0°C)** at most places over Rayalaseema; at few places over East Madhya Pradesh, North Interior Karnataka and South Interior Karnataka; at isolated places over Gangetic West Bengal, Odisha, Jharkhand, Bihar, East Uttar Pradesh, West Uttar Pradesh, Himachal Pradesh, West Rajasthan, East Rajasthan, West Madhya Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **The lowest minimum temperature** of 6.1°C was reported at MANDI (HIMACHAL PRADESH) over the Plains of India.

❖ **Maximum Temperature Departures (as on 16-11-2026): below normal(-1.6°C to -3.0°C)** at few places over Nagaland, Manipur, Mizoram & Tripura and Gujarat Region; at isolated places over Assam & Meghalaya and Uttarakhand. **appreciably below normal(-5.0°C to -3.1°C)** at few places over Sub Himalayan West Bengal & Sikkim and South Interior Karnataka; at isolated places over Punjab, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Madhya Maharashtra, Vidarbha, Telangana and North Interior Karnataka. **markedly below normal(< -5.0°C)** at most places over Arunachal Pradesh, Jharkhand, Bihar, East Uttar Pradesh, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Marathwada, Chhattisgarh and Rayalaseema. **The highest maximum temperature** of 36.2°C was reported at CHITTORGARH (RAJASTHAN).

Meteorological Analysis (Based on 1430 hours IST)

- The **Cyclonic Storm "Akvan" [Pronunciation: Akvan]** over central parts of South and adjoining Westcentral Bay of Bengal moved slowly north-northwestwards with the speed of 03 kmph during past 06 hours and lay centered at 1130 hours IST of today, the 17th November, 2026 over the same region, near Latitude 12.3°N and Longitude 85.7°E, about 600 km east of Chennai (Tamil Nadu), 640 km northeast of Trincomalee (Sri Lanka), 650 km southeast of Machilipatnam (Andhra Pradesh), 660 km south-southeast of Visakhapatnam (Andhra Pradesh) and 780 km south of Gopalpur (Odisha). It is very likely to move slowly north-northwestwards and intensify further into a **Severe Cyclonic Storm** over westcentral Bay of Bengal around evening of today, the 17th November, 2026. Thereafter, it is likely to move northwestwards and intensify further into a **Very Severe Cyclonic Storm** around 19th November morning. Continuing to move northwestwards, it is likely to cross Andhra Pradesh & Yanam coasts between Nellore and Visakhapatnam, around noon of 20th November, 2026 as a **Very Severe Cyclonic Storm** with the maximum sustained wind speed of 120-130 kmph gusting to 145 kmph.
- The **upper air cyclonic circulation** over Northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over Sikkim & neighbourhood at 3.1 km above mean sea level persists.



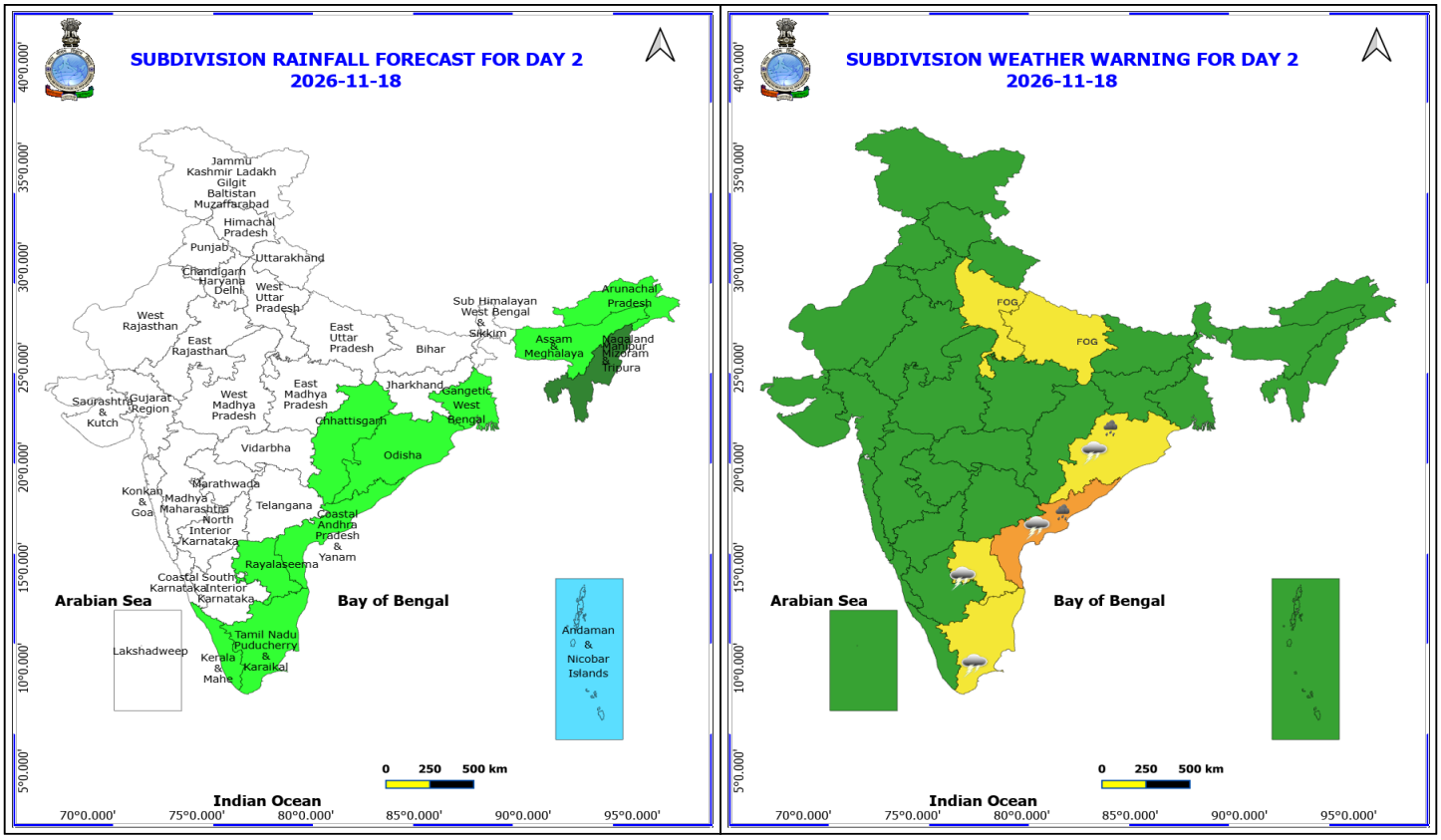
17 November (Day 1)

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Coastal Andhra Pradesh.

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

❖ **Dense Fog** very likely at isolated places over Uttar Pradesh.

❖ **Fishermen are advised not to venture** into Southeast, Southwest, Westcentral, Eastcentral Bay of Bengal.



18 November (Day 2)

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

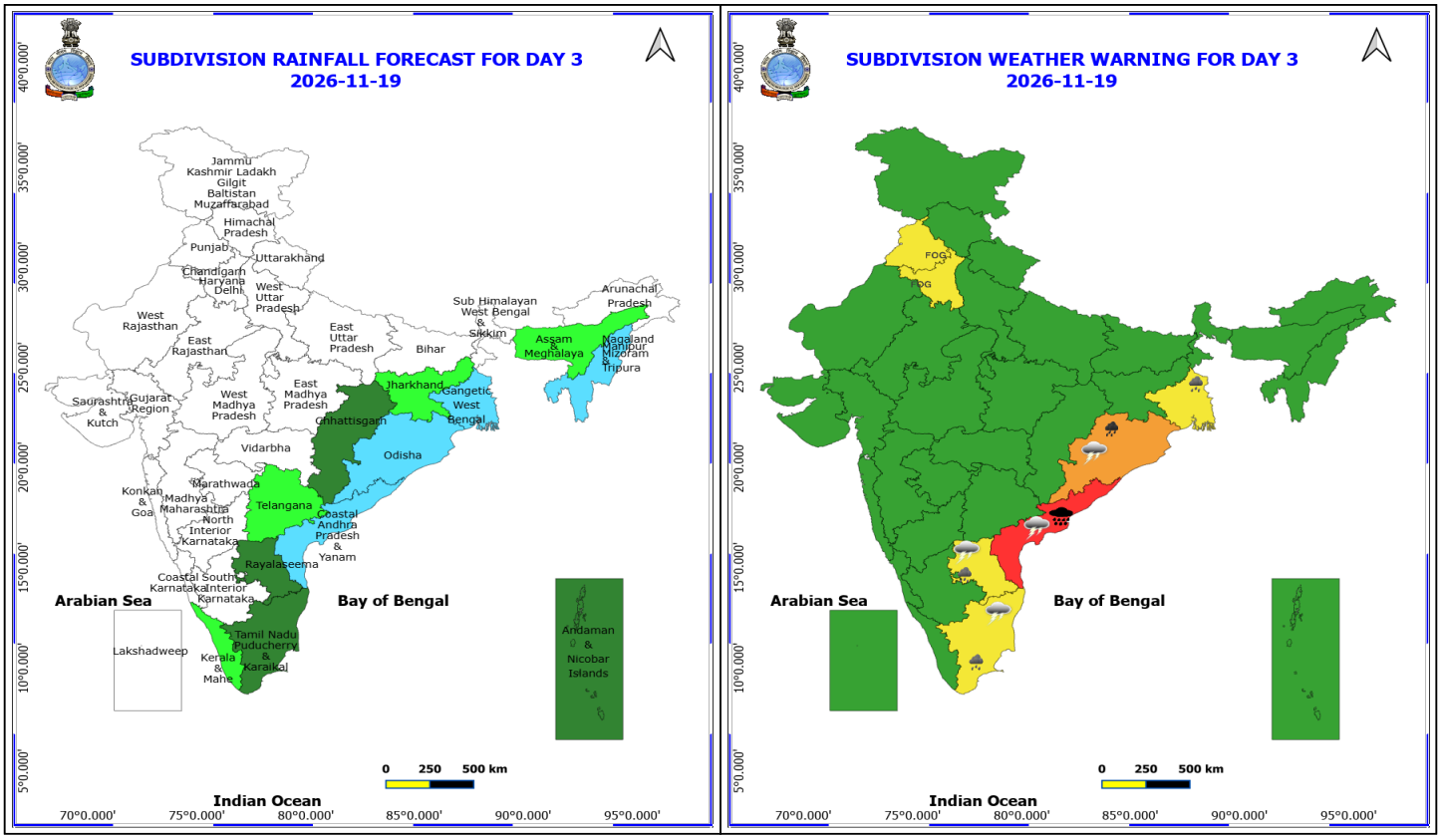
❖ **Thundersquall with wind speed reaching(60-70kmph) gusting to 80 kmph** very likely at isolated places over Coastal Andhra Pradesh.

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

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

❖ **Dense Fog** very likely at isolated places over Uttar Pradesh.

❖ **Fishermen are advised not to venture** into Southeast, Southwest, Westcentral, Eastcentral Bay of Bengal.



19 November (Day 3)

❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Coastal Andhra Pradesh.

❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Odisha.

❖ **Heavy Rainfall** very likely at isolated places over Gangetic West Bengal, Rayalaseema and Tamil Nadu Puducherry & Karaikal.

❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Odisha.

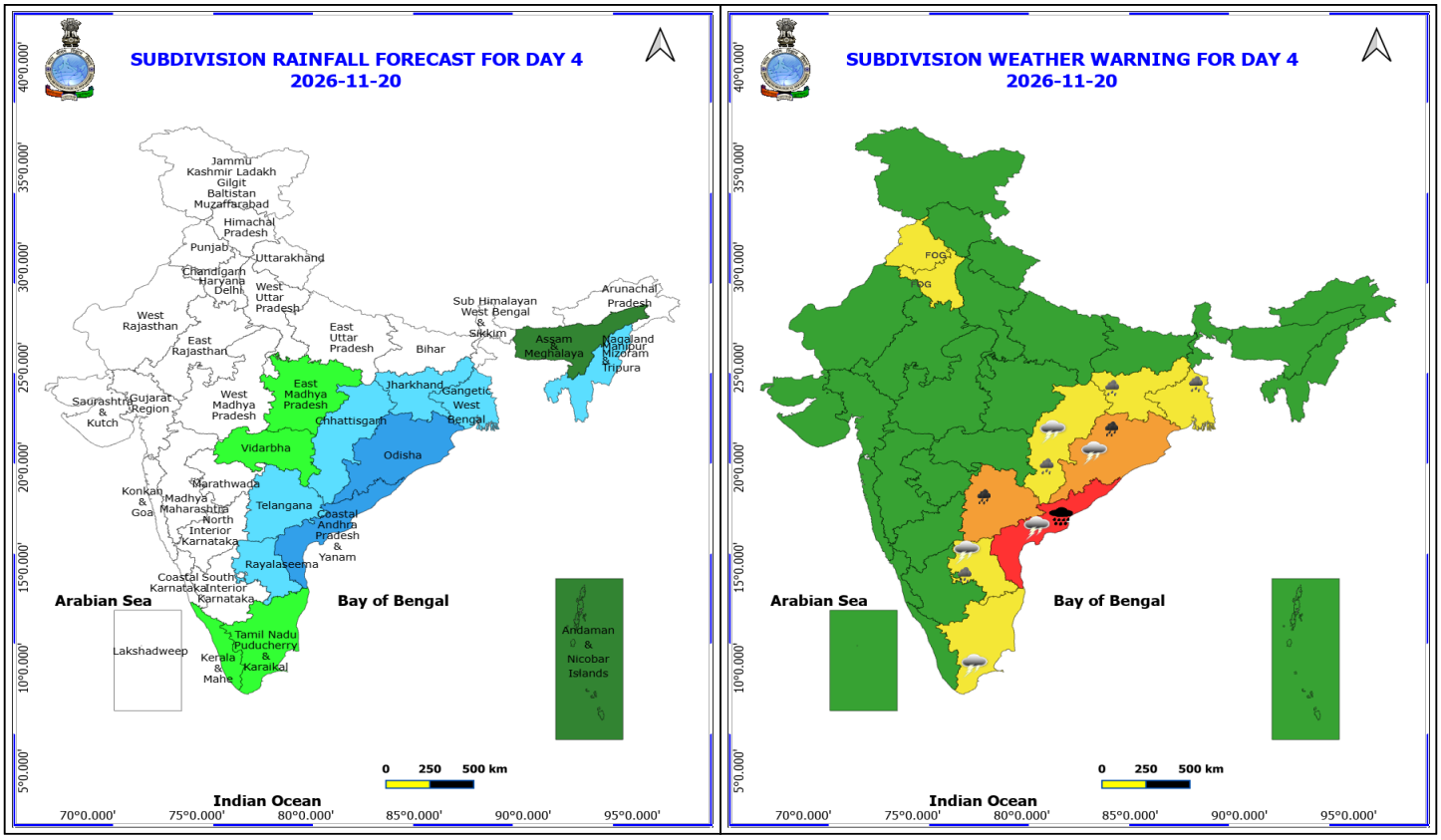
❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Rayalaseema and Tamil Nadu Puducherry & Karaikal.

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

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

❖ **Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.

❖ **Fishermen are advised not to venture** into Southwest, Westcentral, Northwest Bay of Bengal.



20 November (Day 4)

❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** likely at isolated places over Coastal Andhra Pradesh.

❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Odisha and Telangana.

❖ **Heavy Rainfall** likely at isolated places over Chhattisgarh, Gangetic West Bengal, Jharkhand and Rayalaseema.

❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Odisha.

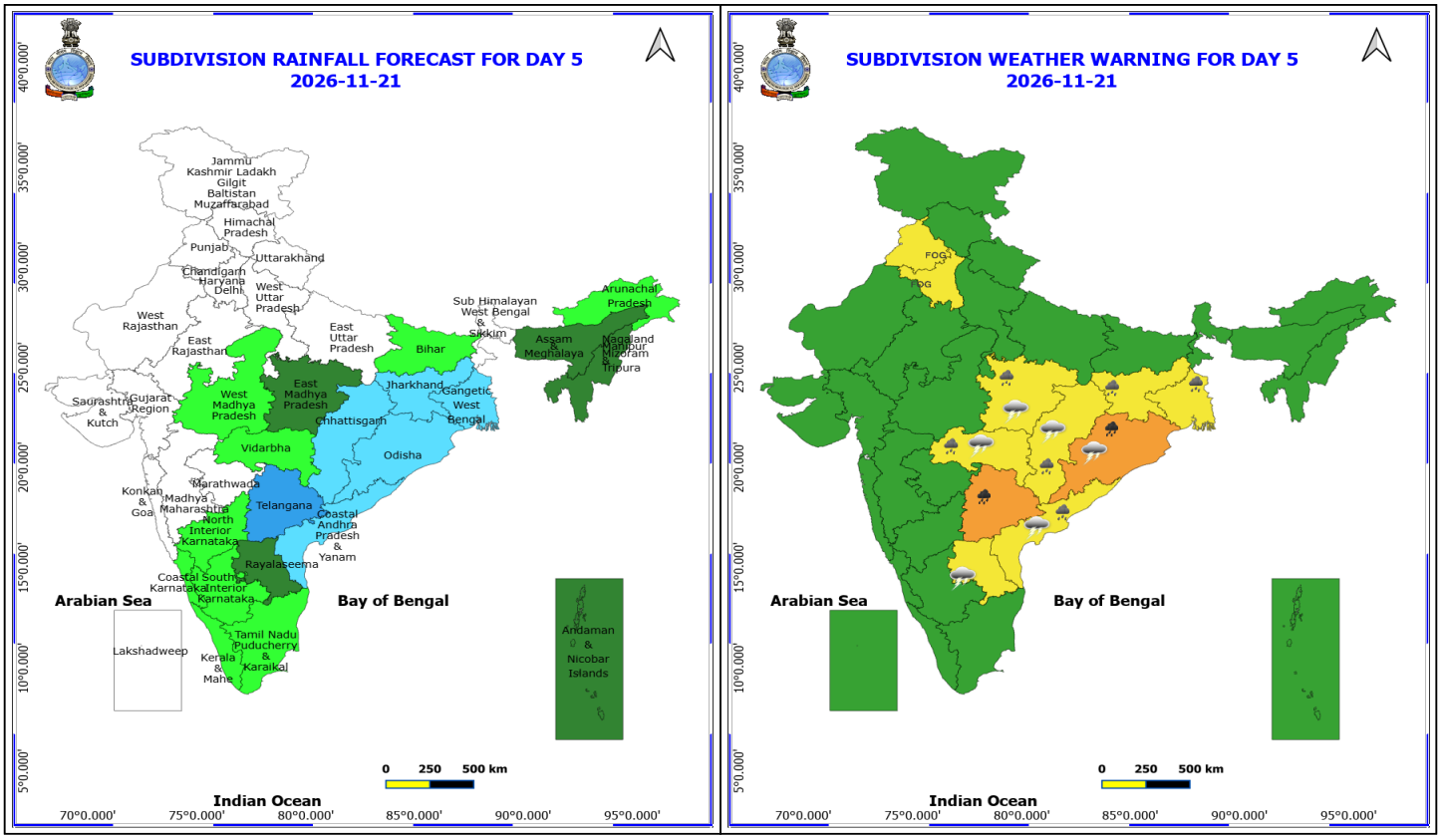
❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh, Rayalaseema and Tamil Nadu Puducherry & Karaikal.

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

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

❖ **Dense Fog** likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.

❖ **Fishermen are advised not to venture** into Southwest, Westcentral, Northwest Bay of Bengal.



21 November (Day 5)

❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Odisha and Telangana.

❖ **Heavy Rainfall** likely at isolated places over Chhattisgarh, Coastal Andhra Pradesh, East Madhya Pradesh, Gangetic West Bengal, Jharkhand and Vidarbha.

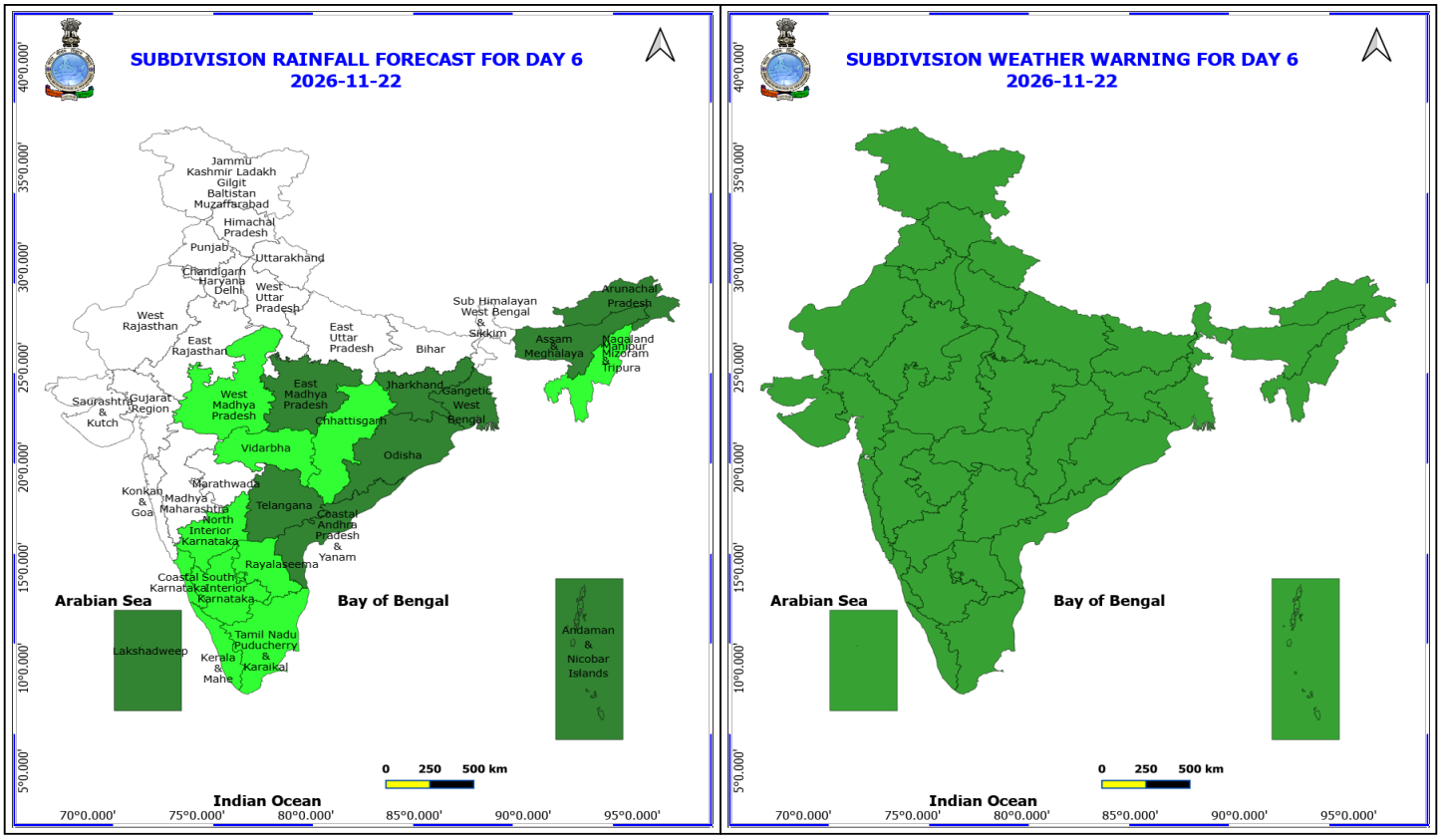
❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Odisha.

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andhra Pradesh, Chhattisgarh, East Madhya Pradesh and Vidarbha.

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

❖ **Dense Fog** likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.

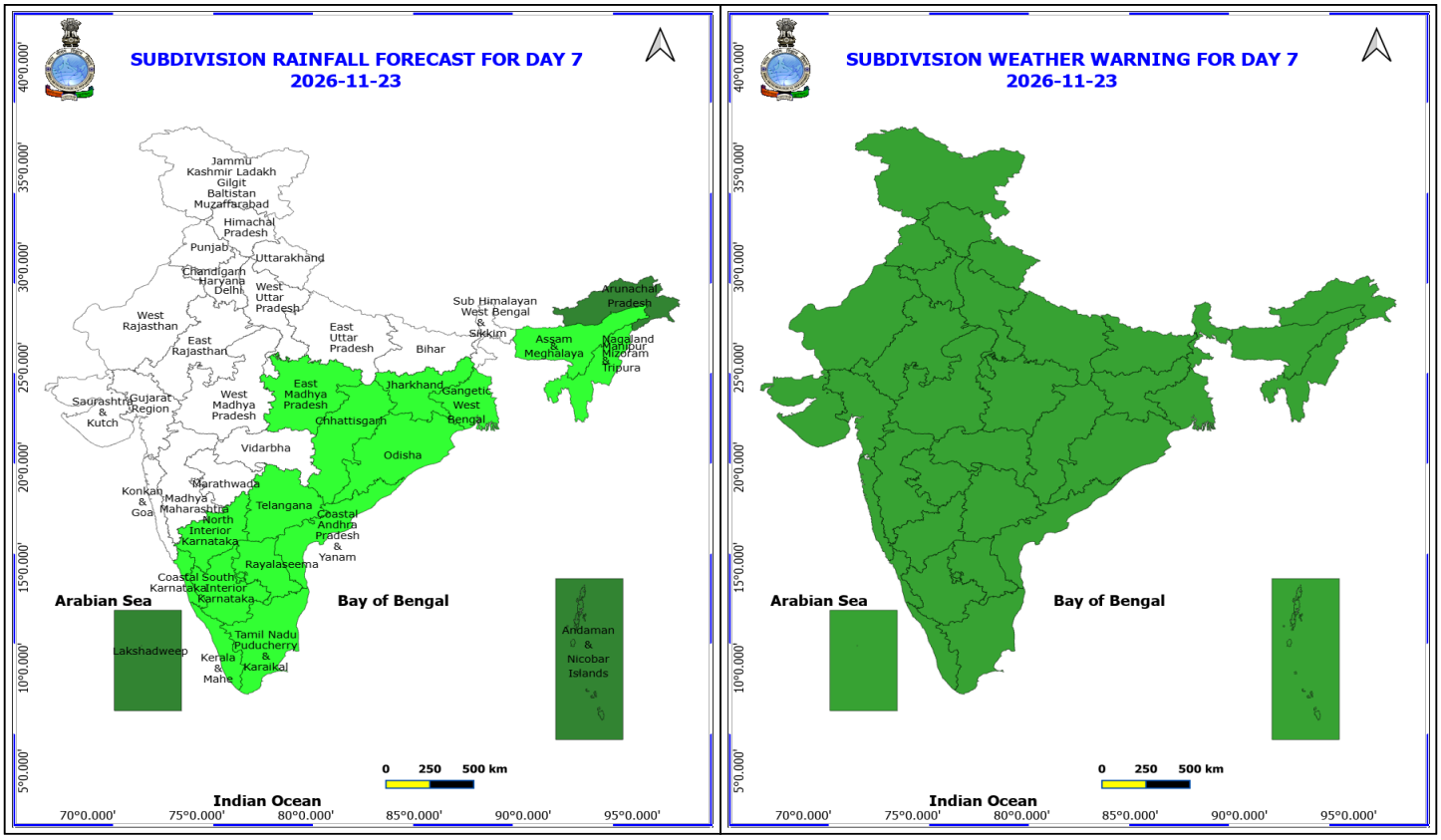
No Fishermen Warning



22 November (Day 6)

No Warning

No Fishermen Warning



23 November (Day 7)

No Warning

No Fishermen Warning

Table-1

7 Days Rainfall Forecast

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

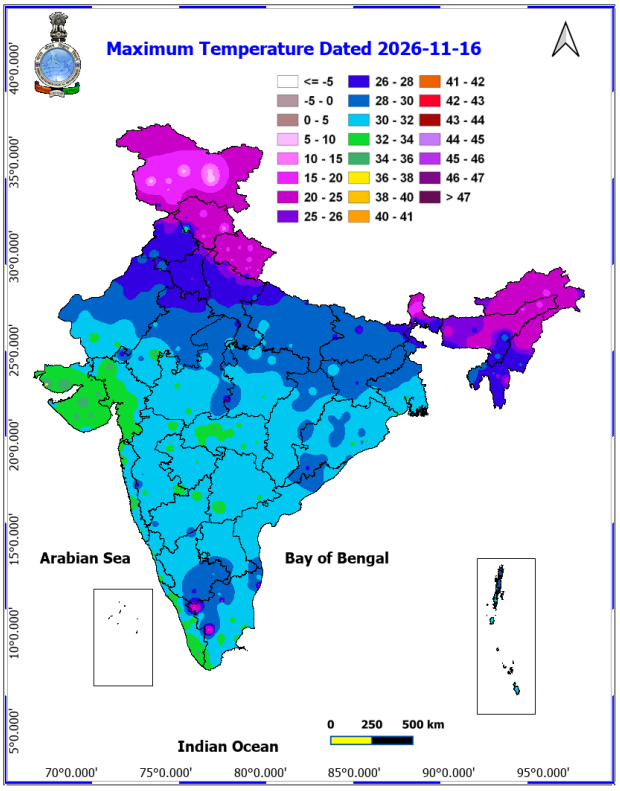


Fig. 2: Departure of Maximum Temp. Dated 2026-11-16

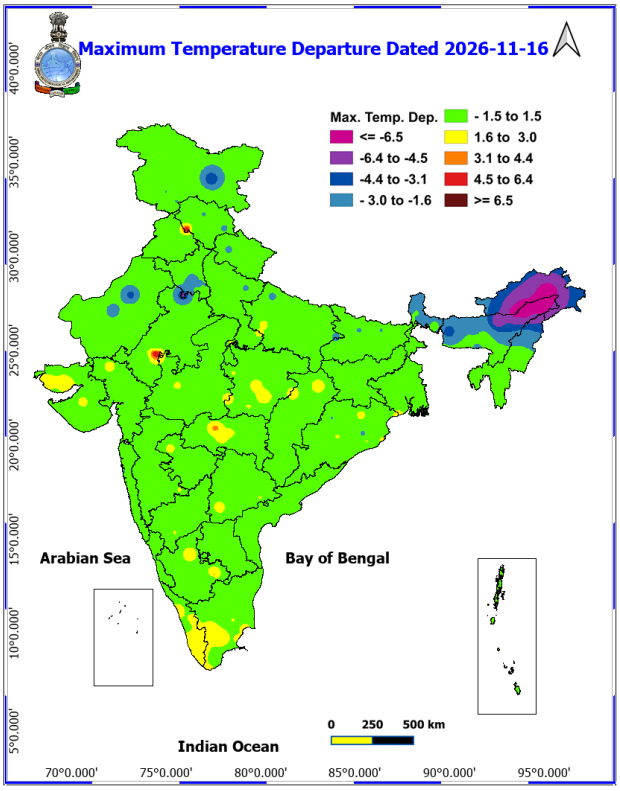


Fig. 3: Minimum Temperatures Dated 2026-11-17

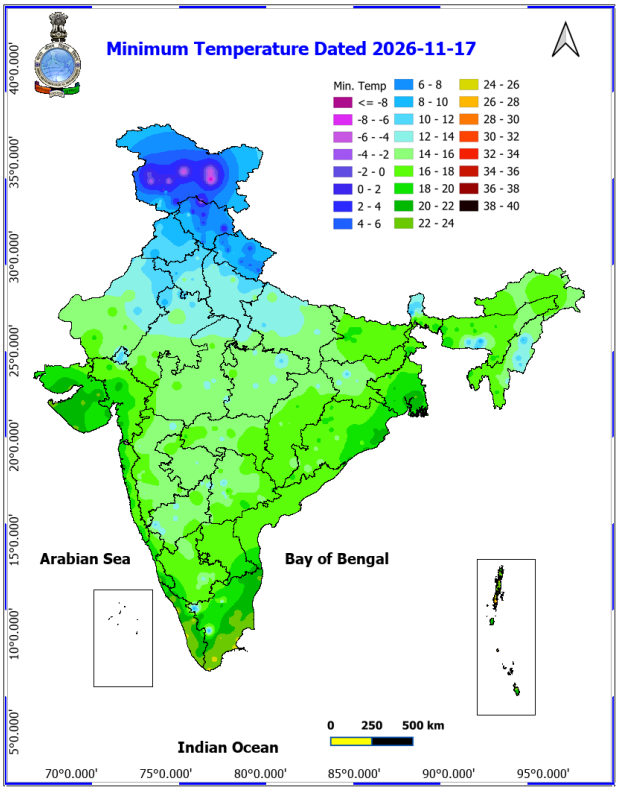
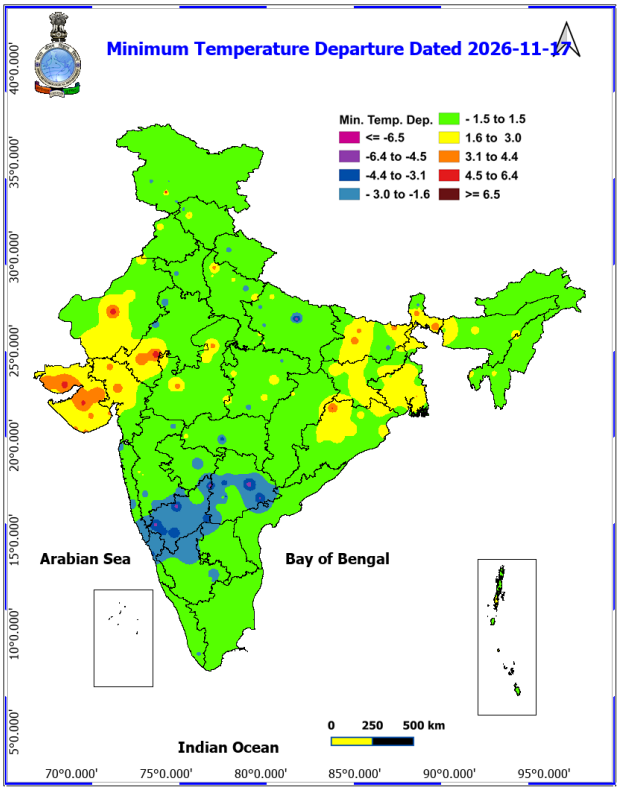
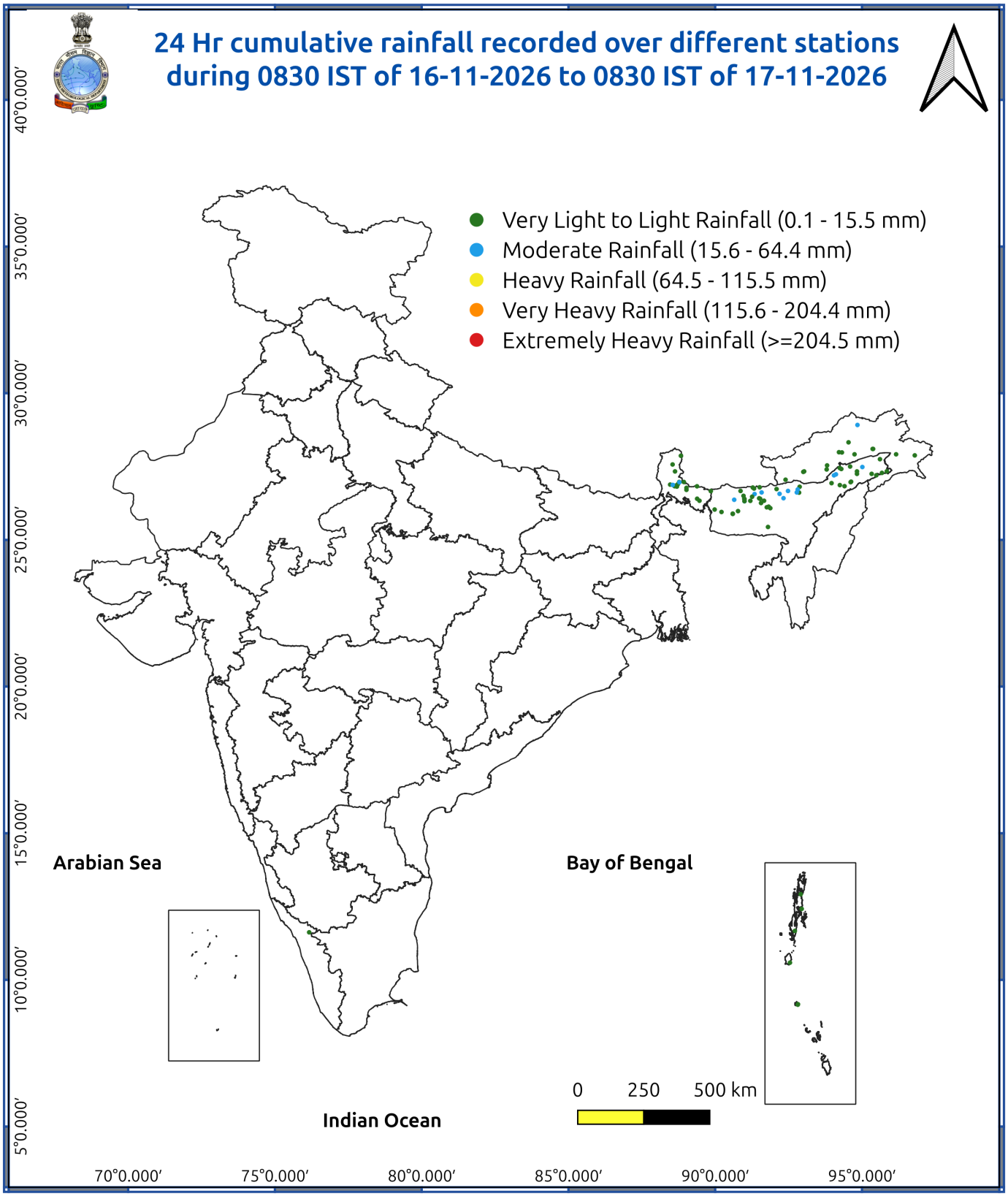


Fig. 4: Departure of Minimum Temp. Dated 2026-11-17



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 16-11-2026 to 0830 IST of 17-11-2026



Impace and Actions

Impact Expected and Action Suggested due to heavy rainfall:

- **Heavy to very heavy rainfall** at a few places with isolated extremely heavy rainfall likely over Coastal Andhra Pradesh & Yanam during 19th-20th November
- **Isolated very heavy rainfall** also likely over Telangana during 20th-21st November and Odisha during 19th-21st 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.

Impact expected due to dense fog in the night /morning hour over Uttar Pradesh:

Transport and Aviation:

- May affect some airports, highways and railway routes in the areas of met- sub-division.
- Difficult driving conditions with slower journey times.
- Unless taken precautionary measures, it may lead to some road traffic collisions.

Power Sector:

- Chances of Tripping of Power lines in the very dense fog routes.

Human Health:

- Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.
- Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
- Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

Transport and Aviation:

- Be careful while driving or outing through any transport.
- Use fog lights during driving.
- Be in touch with airlines, railways and state transport for schedule of your journey.

Power Sector:

- To keep ready Maintenance Team.
- Human Health: To avoid outing until unless emergency and to cover the face.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Heavy / Very Heavy / Extremely Heavy Rainfall

- In **Coastal Andhra Pradesh,** harvest matured crops of rice, maize, groundnut, cotton and vegetables and matured fruits of banana and papaya immediately and keep the harvested produce in a safe place. Postpone sowing of *rabi* crops such as green gram, black gram, maize and sunhemp.Make necessary arrangements for draining excess water from fields of rice, red gram, cotton, maize, sugarcane, turmeric, ginger, niger, rajmash, ragi and vegetables; plantations of banana and already sown crops of *rabi* maize and sunhemp.Provide adequate support to banana, coffee, black pepper and other plantation crops to minimize damage due to strong winds.
- In **Rayalseema,** harvest the matured fruits and vegetables. Strengthen the field bunds and clear the drainage channels in standing crops such as rice, pulses, vegetables etc. to remove excess water. Take up propping in banana and arrange for staking in vegetables to prevent lodging due to strong winds. Delay sowing of *rabi* crops like groundnut, sunflower, red gram, bajra, short duration pulse crops and fodder crops.
- In **Odisha,** harvest matured crops of rice, maize, finger millet, green gram, black gram, groundnut and seasonal vegetables immediately and store the harvested produce in a safe and covered place. Pick fully opened cotton bolls and store them in safe place. Cover vegetables nurseries like tomato, chilli and brinjal using plastic covers or polythene sheets. Make provision to drain excess water from standing rice fields, vegetable nurseries and recently sown fields of mustard, groundnut, green gram and black gram. Provide additional support to weak plants using wooden sticks or bamboo poles.
- In **Telangana,** harvest matured crops of *kharif* rice, maize and turmeric and keep the produce in safe place. Postpone sowing of rice nurseries and *rabi* crops such as sorghum, maize, sesame, sunflower, safflower, chickpea, mustard, groundnut, cowpea, black gram, green gram. Provide adequate drainage channels in already sown fields of jowar, maize, groundnut and Bengal gram to facilitate quick removal of excess rainwater.
- In **Tamil Nadu,** harvest matured crops of rice, groundnut, pulses and millets immediately and store the harvested produce in safe and dry places. Strengthen field bunds and drainage channels in rice fields to drain out excess rainwater. Provide staking to tomato, chilli and creeper vegetables. Clear drainage around coconut basins and harvest mature nuts.

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.

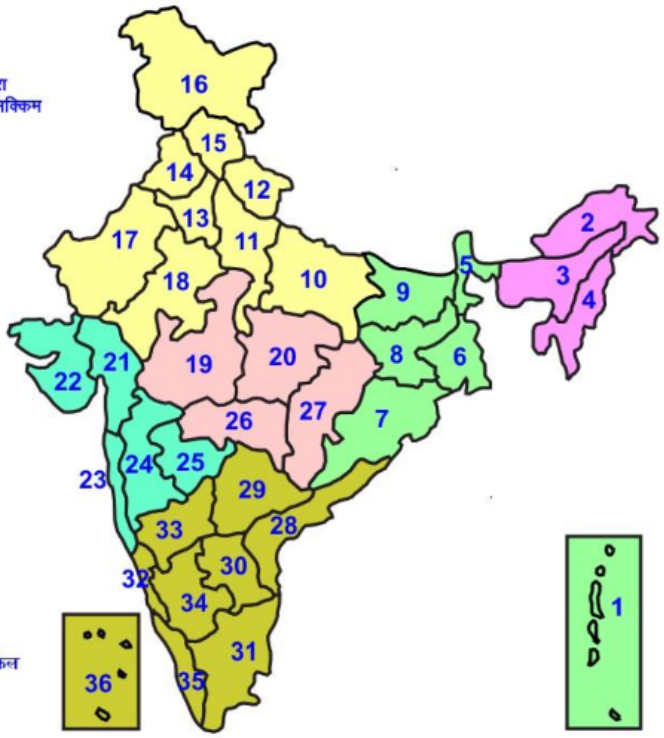
Legends & abbreviations:

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)