2026-11-16
Time of Issue: 09:00:00 hours IST
(Morning)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather system, Forecast and Warnings:

- The **Deep Depression** over Southeast & adjoining Southwest Bay of Bengal moved north-northwestwards with the speed of 08 kmph during past 06 hours and lay centered at 0530 hours IST of today, the 16th November, 2026 over the same region, near Latitude 11.0°N and Longitude 86.5°E, about 630 km east-northeast of Trincomalee (Sri Lanka), 680km west of Sri Vijaya Puram (Andaman & Nicobar Islands), 720 km east-southeast of Chennai (Tamil Nadu), 820 km south-southeast of Visakhapatnam (Andhra Pradesh) and 940 km south of Gopalpur (Odisha). It is very likely to continue to move north-northwestwards, intensify further into a **Cyclonic Storm** over the central parts of south & adjoining westcentral Bay of Bengal in the evening of 16th November and into a **Severe Cyclonic Storm** over westcentral Bay of Bengal in the evening of 17th November, 2026. Thereafter, it is likely to intensify further and move northwestwards and reach over westcentral Bay of Bengal near Andhra Pradesh coast around night of 19th November 2026 as a **very severe cyclonic storm**.

Northwest India:

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

Central India:

- **Isolated to Scattered** rainfall likely over West Madhya Pradesh on 21st November; East Madhya Pradesh and Vidarbha during 20th-21st November; Chhattisgarh during 19th-21st November.
- Isolated **heavy rainfall** likely over south Chhattisgarh on 20th and north Chhattisgarh on 21st November.

East India:

- **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 16th-19th November; Odisha during 19th-21st November.
- **Isolated to Scattered** rainfall likely over Andaman & Nicobar Islands during 20th-21st November; Sub-Himalayan West Bengal & Sikkim on16th November; Gangetic West Bengal during 18th-21st November; Jharkhand during 19th-21st November; Odisha on 18th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Andaman & Nicobar Islands during 16th-17th November; Gangetic West Bengal during 19th-20th November; Odisha on 18th November, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Andaman & Nicobar Islands during 18th-21st November; Gangetic West Bengal on 21st November.
- Isolated **heavy rainfall** likely over Gangetic West Bengal during 19th-20th 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.

Northeast India:

- **Isolated to Scattered** rainfall likely over Arunachal Pradesh during 16th-21st November; Assam & Meghalaya on 16th November and during 19th-21st November; Nagaland, Manipur, Mizoram & Tripura during 18th-21st November.
- Isolated **thunderstorm & lightning** likely over Nagaland, Manipur, Mizoram & Tripura during 18th-20th November.
- Isolated **heavy rainfall** likely over Mizoram & Tripura on 19th November.

South Peninsular India:

- **Isolated to Scattered** rainfall likely over Kerala & Mahe, Rayalaseema and Tamil Nadu, Puducherry & Karaikal during 16th-21st November; Lakshadweep on 21st November; Coastal Andhra Pradesh & Yanam during 16th-18th November and during 20th-21st November; Telangana during 19th-21st November.
- **Fairly Widespread to Widespread** rainfall likely over Coastal Andhra Pradesh & Yanam on 19th November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal during 18th-20th November; Telangana on 20th November.
- Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal during 17th & 20th November; Coastal Andhra Pradesh & Yanam on 18th November; Rayalaseema during 19th-20th November; Telangana on 20th November with isolated very heavy rainfall also likely over Tamil Nadu, Puducherry & Karaikal on 18th & 19th 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**.

West India:

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

Fog warning:

- Dense fog conditions very likely over Uttar Pradesh during 16th-17th November.

Wind warning:

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 wind speed of 55 to 65 gusting to 75 kmph from morning of 16th, Gale wind speed 60-70 kmph gusting to 80 kmph from noon of 16th and 80-90 kmph gusting to 100 kmph for subsequent 24 Hours.

Southwest Bay of Bengal:

- Squally wind 55-65 kmph gusting to 70 kmph from morning of 16th November and Gale wind speed reaching 65-75 kmph gusting to 85 kmph from noon of 16th. It is likely to becoming 85-95 kmph gusting 105 kmph from morning 17th and 100-110 kmph gusting to 120 kmph from morning of 18th November for subsequent 12 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 60-80 kmph gusting to 90 kmph from evening of 16th November and 90-100 kmph gusting to 120kmph. It is likely to become 120 to 130 kmph gusting to 145 kmph from 18th morning for subsequent 2 days.

Northwest Bay of Bengal:

- Squally wind speed reaching 45-55 gusting to 65 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 morning.

Sea condition:

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 16th November, becoming very rough to high from 17th to 18th November.

Southwest Bay of Bengal:

- Very rough to high sea condition is very likely on 16th November and high to very high from 17th to 19th November

Central Bay of Bengal:

- Rough to very rough sea condition is very likely on 16th November. It is likely to deteriorate becoming high to very high from 17th to 18th November and very high to phenomenal from of 19th for subsequent 2 days.

Northwest Bay of Bengal:

- Rough to very rough sea condition is very likely on 19th November.

Fisherman warning:

- Fishermen are advised not to venture into Andaman Sea and along & off Andaman & Nicobar Islands, Southeast Bay of Bengal from till 17th November; Southwest Bay of Bengal during 16th – 19th November; Central Bay of Bengal during 16th – 20th November; Northwest Bay of Bengal during 19th - 20th November.

Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Andaman & Nicobar Islands and Himachal Pradesh; **at many places** over Arunachal Pradesh, Jammu & Kashmir and Ladakh, Assam & Meghalaya and Tamilnadu Puducherry & Karaikal; **Dry** over rest of the country.
❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Andaman & Nicobar Islands**: Port Blair (dist South Andaman) 1; **Assam & Meghalaya**: Dibrugarh (dist Dibrugarh), North Lakhimpur (dist Lakhimpur) 1 Each; **Tamilnadu Puducherry & Karaikal**: Kanyakumari (dist Kanyakumari) 1.

❖ **Fog Condition Observed (at 0530 hours of today): Dense fog conditions:** at isolated places over East Uttar Pradesh.

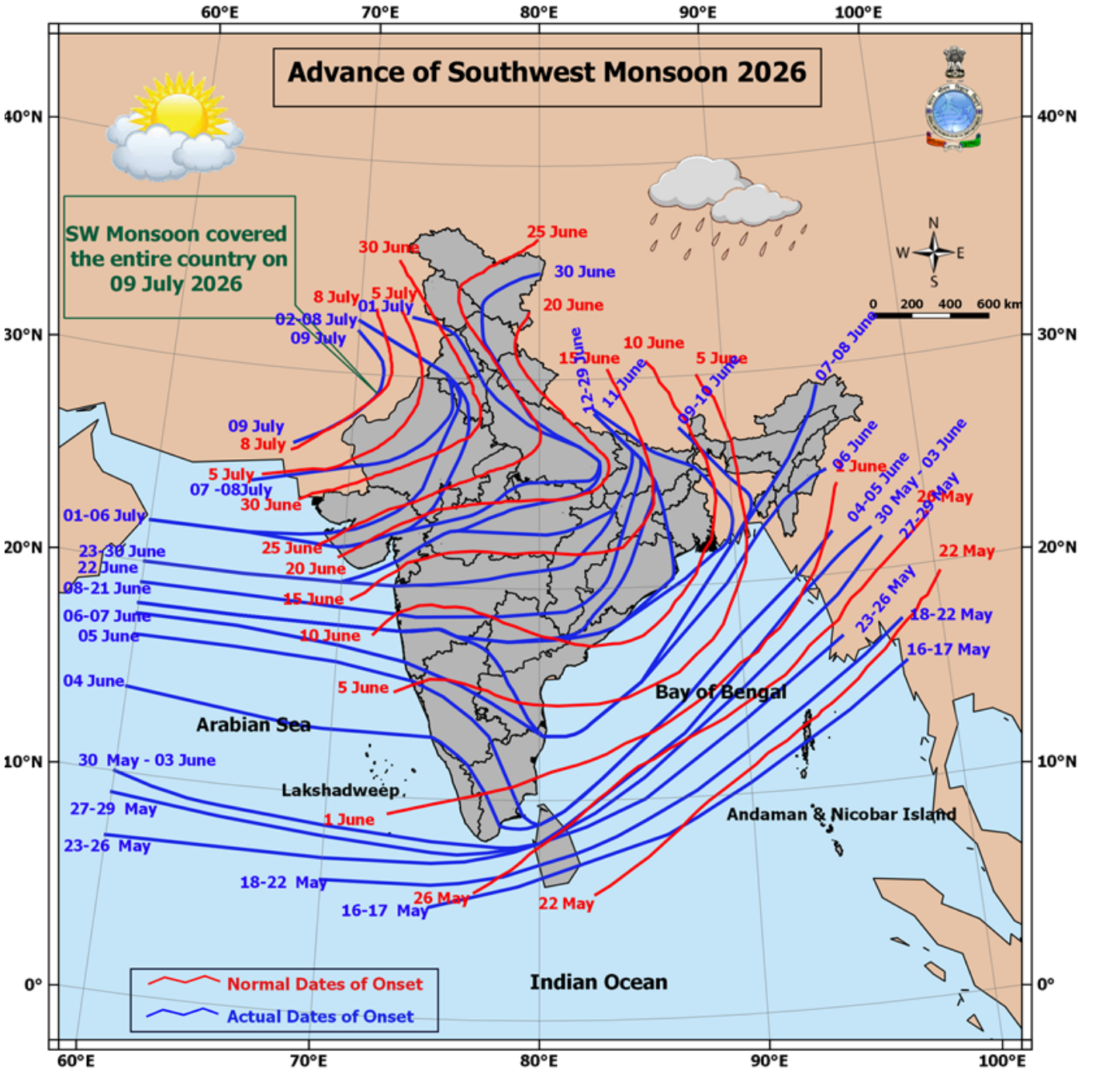
❖ **Visibility reported (at 0530 hours of today):** East Uttar Pradesh: Azamgarh-obs (dist Azamgarh) 50;.

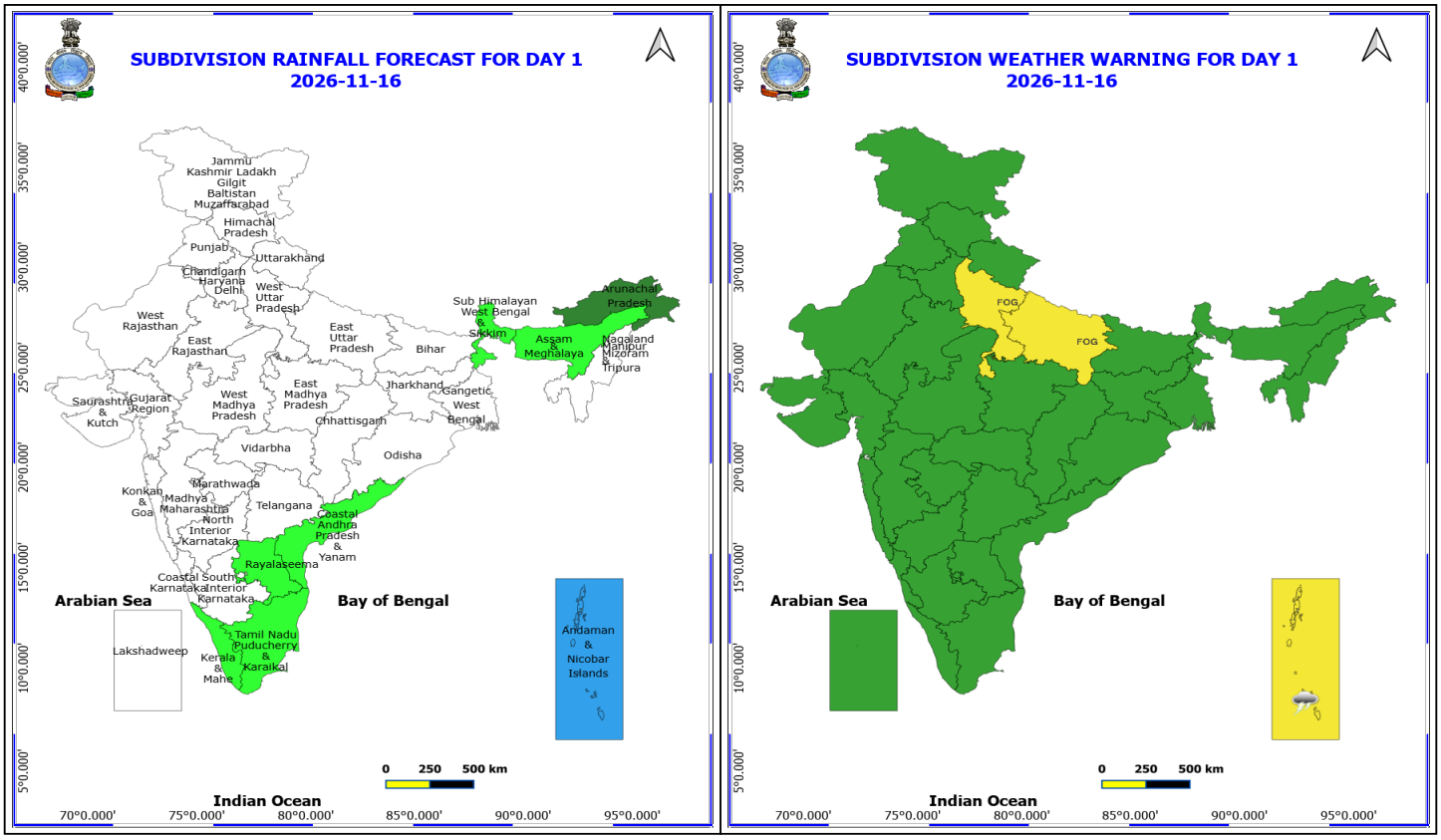
❖ **Minimum Temperature Departures (as on 15-11-2026): below normal(-1.6°C to -3.0°C)** at few places over Konkan & Goa, Madhya Maharashtra, Vidarbha, Telangana and Coastal Karnataka; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Madhya Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka and Kerala & Mahe. **appreciably below normal(-5.0°C to -3.1°C)** at few places over Gangetic West Bengal, Odisha, Rayalaseema and North Interior Karnataka; at isolated places over Assam & Meghalaya, Bihar, East Uttar Pradesh, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. **markedly below normal(< -5.0°C)** at many places over Odisha; at few places over East Madhya Pradesh and South Interior Karnataka; at isolated places over East Uttar Pradesh, West Uttar Pradesh, West Madhya Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka. **The lowest minimum temperature** of 11.2°C was reported at MANDI (HIMACHAL PRADESH) over the Plains of India.

❖ **Maximum Temperature Departures (as on 15-11-2026): The highest maximum temperature** of 36.2°C was reported at CHITTORGARH (RAJASTHAN).

Meteorological Analysis (Based on 0530 hours IST)

- The **Deep Depression** over Southeast & adjoining Southwest Bay of Bengal moved north-northwestwards with the speed of 08 kmph during past 06 hours and lay centered at 0530 hours IST of today, the 16th November, 2026 over the same region, near Latitude 11.0°N and Longitude 86.5°E, about 630 km east-northeast of Trincomalee (Sri Lanka), 680km west of Sri Vijaya Puram (Andaman & Nicobar Islands), 720 km east-southeast of Chennai (Tamil Nadu), 820 km south-southeast of Visakhapatnam (Andhra Pradesh) and 940 km south of Gopalpur (Odisha). It is very likely to continue to move north-northwestwards, intensify further into a **Cyclonic Storm** over the central parts of south & adjoining westcentral Bay of Bengal in the evening of 16th November and into a **Severe Cyclonic Storm** over westcentral Bay of Bengal in the evening of 17th November, 2026. Thereafter, it is likely to intensify further and move northwestwards and reach over westcentral Bay of Bengal near Andhra Pradesh coast around night of 19th November 2026 as a **very severe cyclonic storm**.
- The east-west **trough** now runs from the cyclonic circulation associated with the above **Deep Depression** over Southeast & adjoining Southwest Bay of Bengal to northern parts of Maldives and extends upto 1.5 km above mean sea level.
- The **Western Disturbance** now seen as a trough aloft in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along long 80°E to the north of Lat 28°N.
- The **upper air cyclonic circulation** over Southwest Rajasthan & neighbourhoodat 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over Northeast Assam & neighbourhood persists and now extends upto 1.5 km above mean sea level.
- The **upper air cyclonic circulation** over Sub-Himalayan West Bengal & neighbourhood between 1.5 & 3.1 km above mean sea level persists.
- The **upper air cyclonic circulation** over Southeast Arabian Sea off Kerala coast at 3.1 km above mean sea level persists.


Advance of Southwest Monsoon 2026
SW Monsoon covered the entire country on 09 July 2026
60°E
70°E
80°E
90°E
100°E
40°N
30°N
20°N
10°N
0°
N
W
E
S
0 200 400 600 km
Arabian Sea
Bay of Bengal
Indian Ocean
Lakshadweep
Andaman & Nicobar Island
30 June
25 June
30 June
20 June
8 July
5 July
01 July
02-08 July
09 July
09 July
8 July
5 July
07 -08July
30 June
01-06 July
23-30 June
22 June
08-21 June
06-07 June
05 June
04 June
25 June
20 June
15 June
10 June
5 June
30 May - 03 June
27-29 May
23-26 May
18-22 May
16-17 May
1 June
26 May
22 May
15 June
10 June
5 June
12-26 June
11 June
09-10 June
07-08 June
06 June
1 June
04-05 June
30 May - 03 June
27-29 May
26 May
23-26 May
22 May
18-22 May
16-17 May
Normal Dates of Onset
Actual Dates of Onset

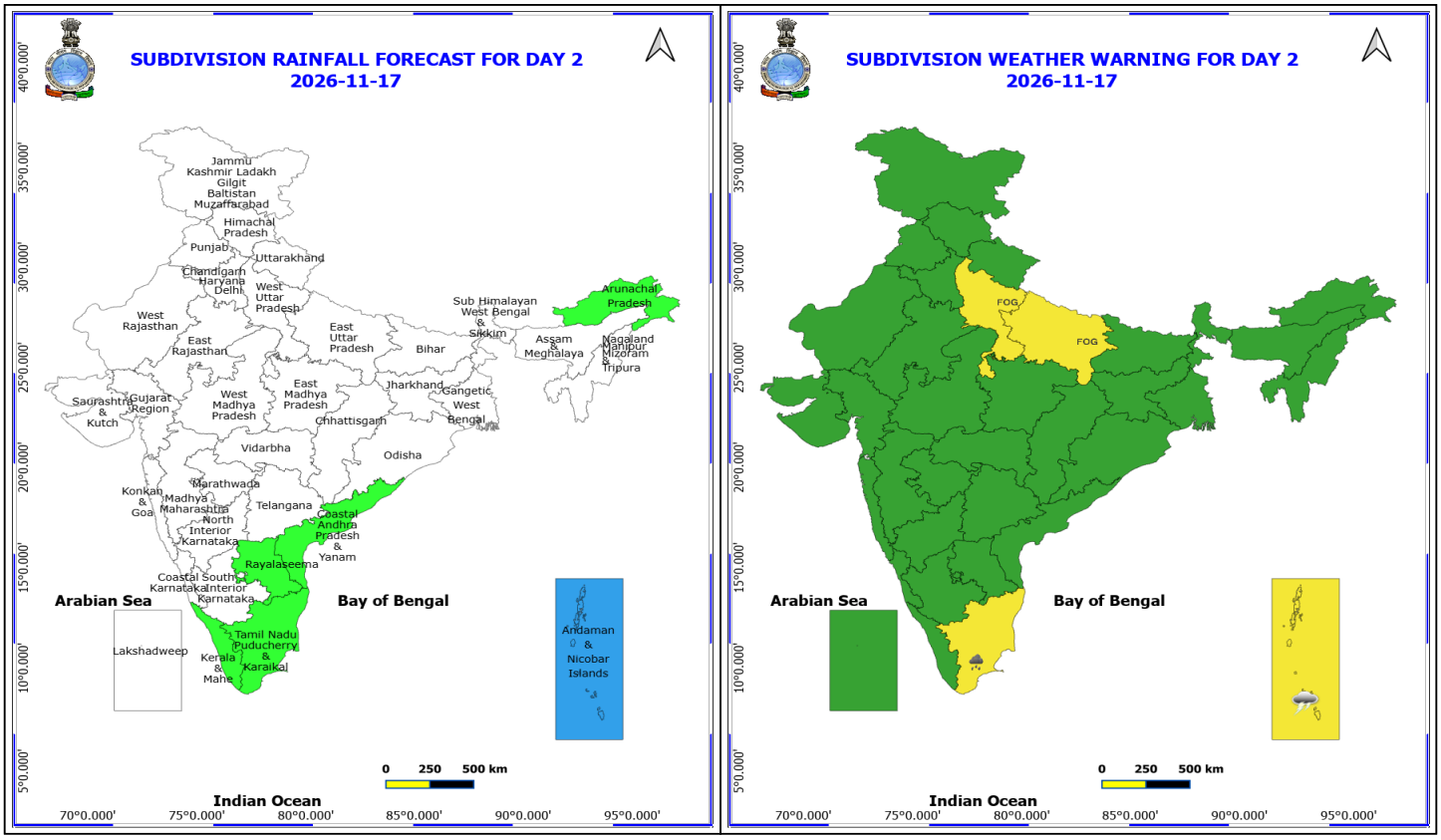


16 November (Day 1)

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** 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 Andaman Sea and along & off Andaman & Nicobar Islands, Southeast Bay of Bengal and Southwest Bay of Bengal.



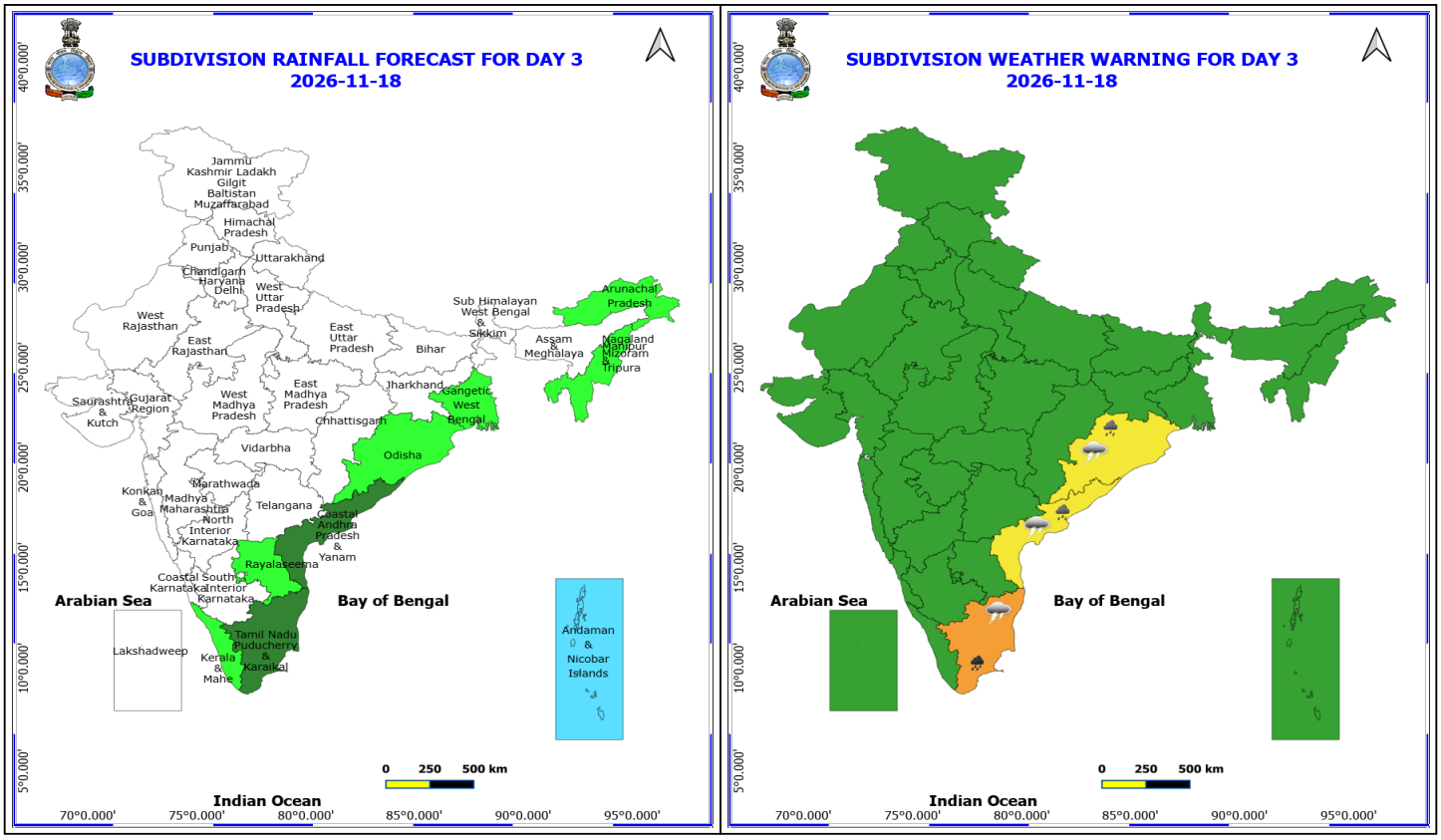
17 November (Day 2)

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

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** 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 Andaman Sea and along & off Andaman & Nicobar Islands, Southeast Bay of Bengal, Southwest Bay of Bengal during and Central Bay of Bengal.



18 November (Day 3)

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

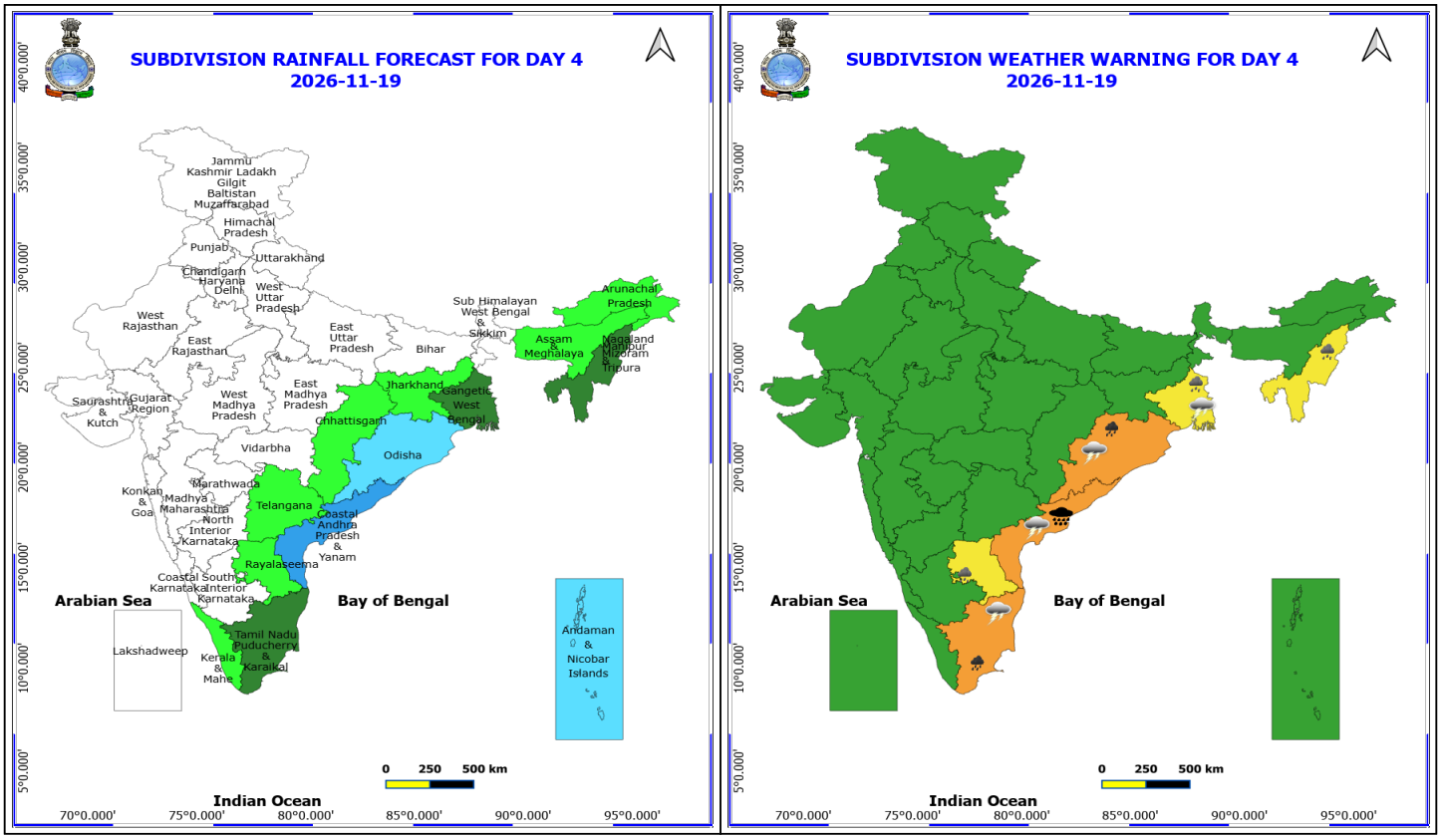
❖ **Heavy Rainfall** very likely at isolated places over Coastal Andhra Pradesh and Odisha.

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

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

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

❖ Fishermen are advised not to venture into Southwest Bay of Bengal and Central Bay of Bengal.



19 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 Tamil Nadu Puducherry & Karaikal.

❖ **Heavy Rainfall** likely at isolated places over Gangetic West Bengal, Nagaland, Manipur, Mizoram and Tripura and Rayalaseema.

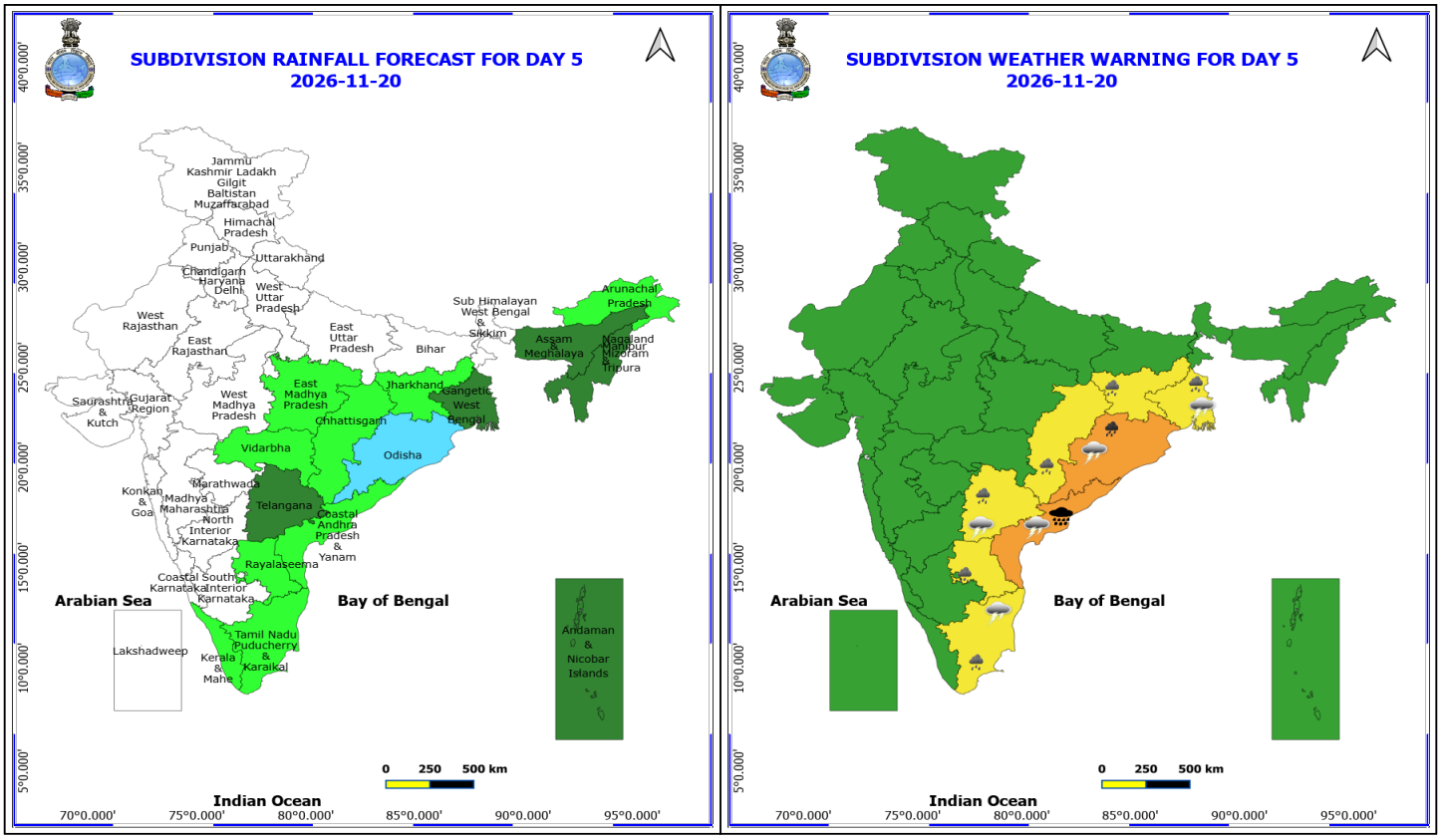
❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Odisha.

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal and Tamil Nadu Puducherry & Karaikal.

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

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

Fishermen are advised not to venture into Southwest Bay of Bengal and Central Bay of Bengal.



20 November (Day 5)

❖ **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.

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

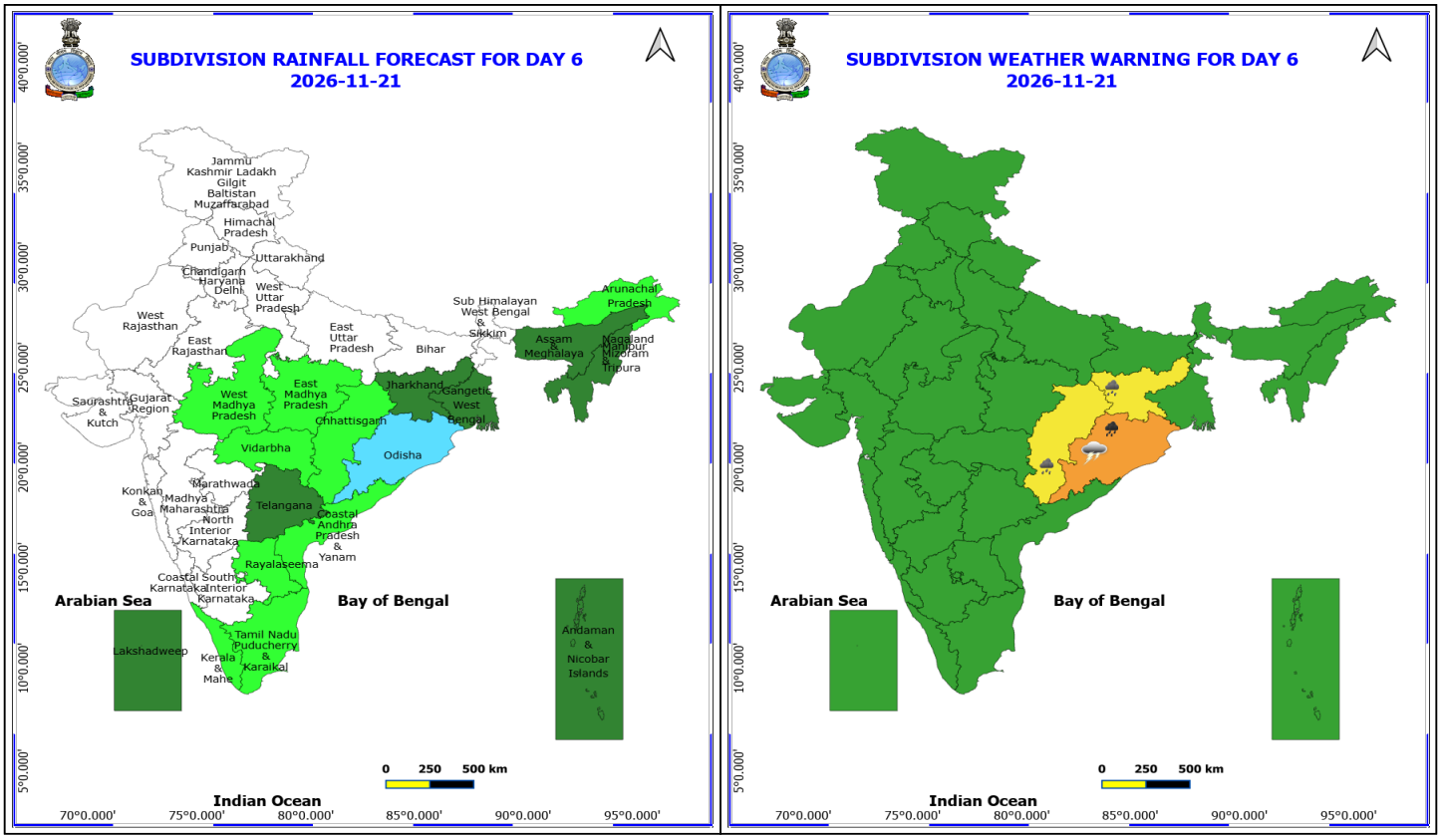
❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Odisha.

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal, Tamil Nadu Puducherry & Karaikal and Telangana.

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

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

Fishermen are advised not to venture into Southwest Bay of Bengal, Central Bay of Bengal and Northwest Bay of Bengal.



21 November (Day 6)

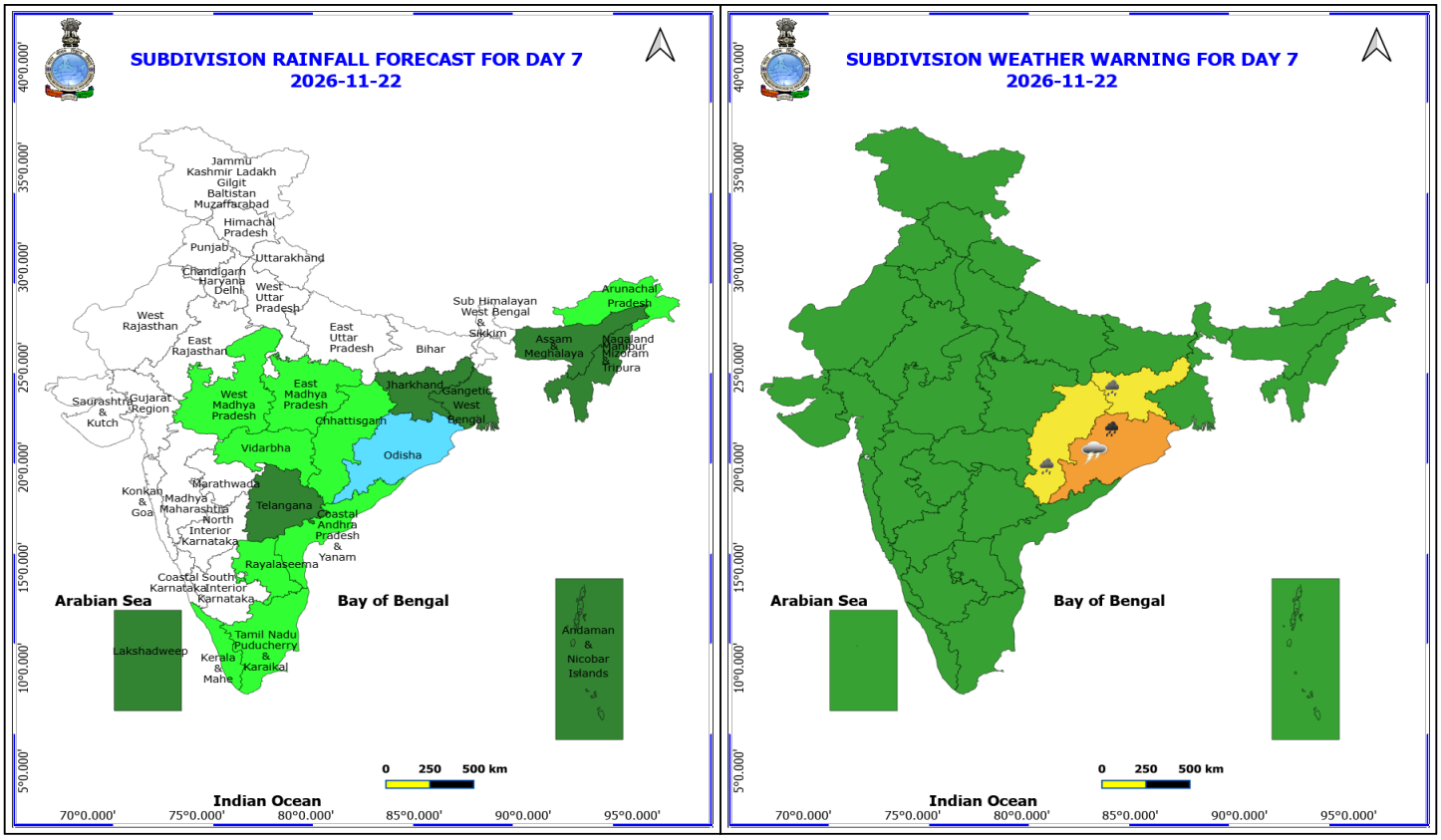
❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Odisha.

❖ **Heavy Rainfall** likely at isolated places over Chhattisgarh and Jharkhand.

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

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

Fishermen are advised not to venture into Central Bay of Bengal and Northwest Bay of Bengal.



22 November (Day 7)

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

❖ **Heavy Rainfall** likely at isolated places over Chhattisgarh and Jharkhand.

❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over 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	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	FWS	FWS	SCT	SCT	SCT
2	ARUNACHAL PRADESH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
3	ASSAM & MEHGHALAYA	ISOL	DRY	DRY	ISOL	SCT	SCT	SCT
4	N. M. M. & T.	DRY	DRY	ISOL	SCT	SCT	SCT	SCT
5	S.H. WEST BENGAL & SIKKIM	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	ISOL	SCT	SCT	SCT	SCT
7	ODISHA	DRY	DRY	ISOL	FWS	FWS	FWS	FWS
8	JHARKHAND	DRY	DRY	DRY	ISOL	ISOL	SCT	SCT
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	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	DRY	ISOL	ISOL
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	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	DRY	ISOL	ISOL	ISOL
27	CHATTISGARH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	SCT	WS	ISOL	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	ISOL	SCT	SCT	SCT
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
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	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 2026-11-15

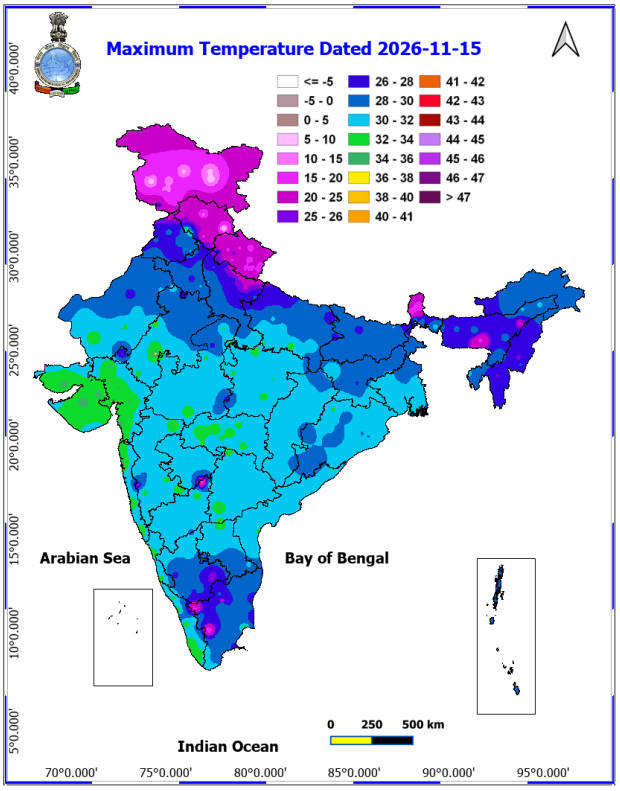


Fig. 2: Departure of Maximum Temp. Dated 2026-11-15

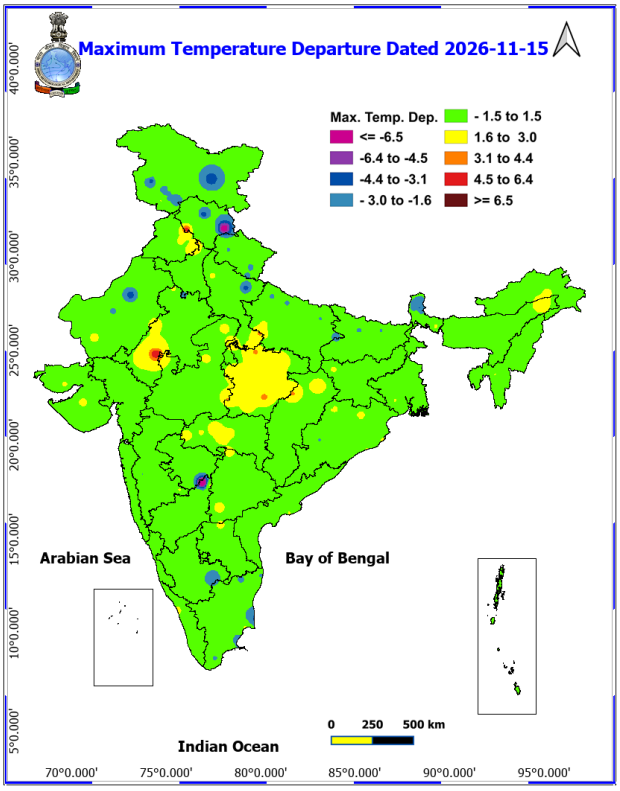


Fig. 3: Minimum Temperatures Dated 2026-11-15

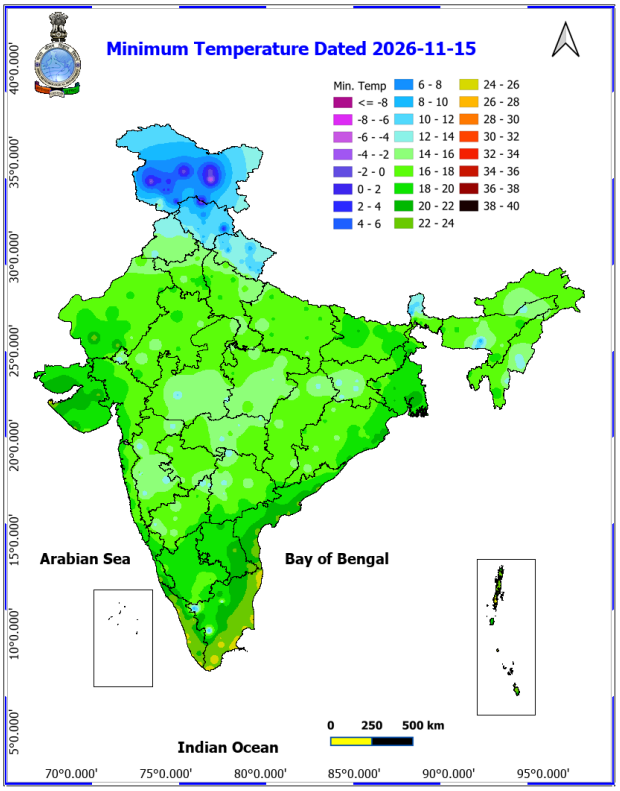
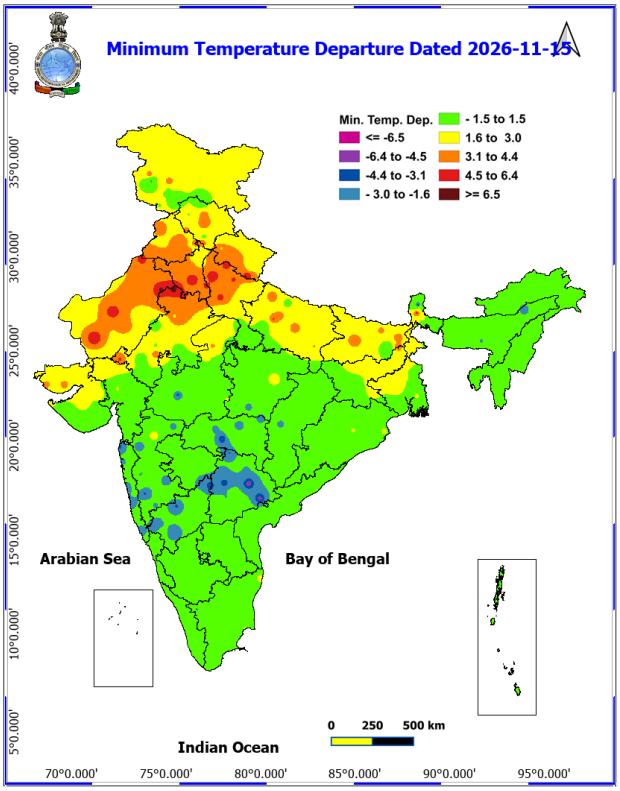
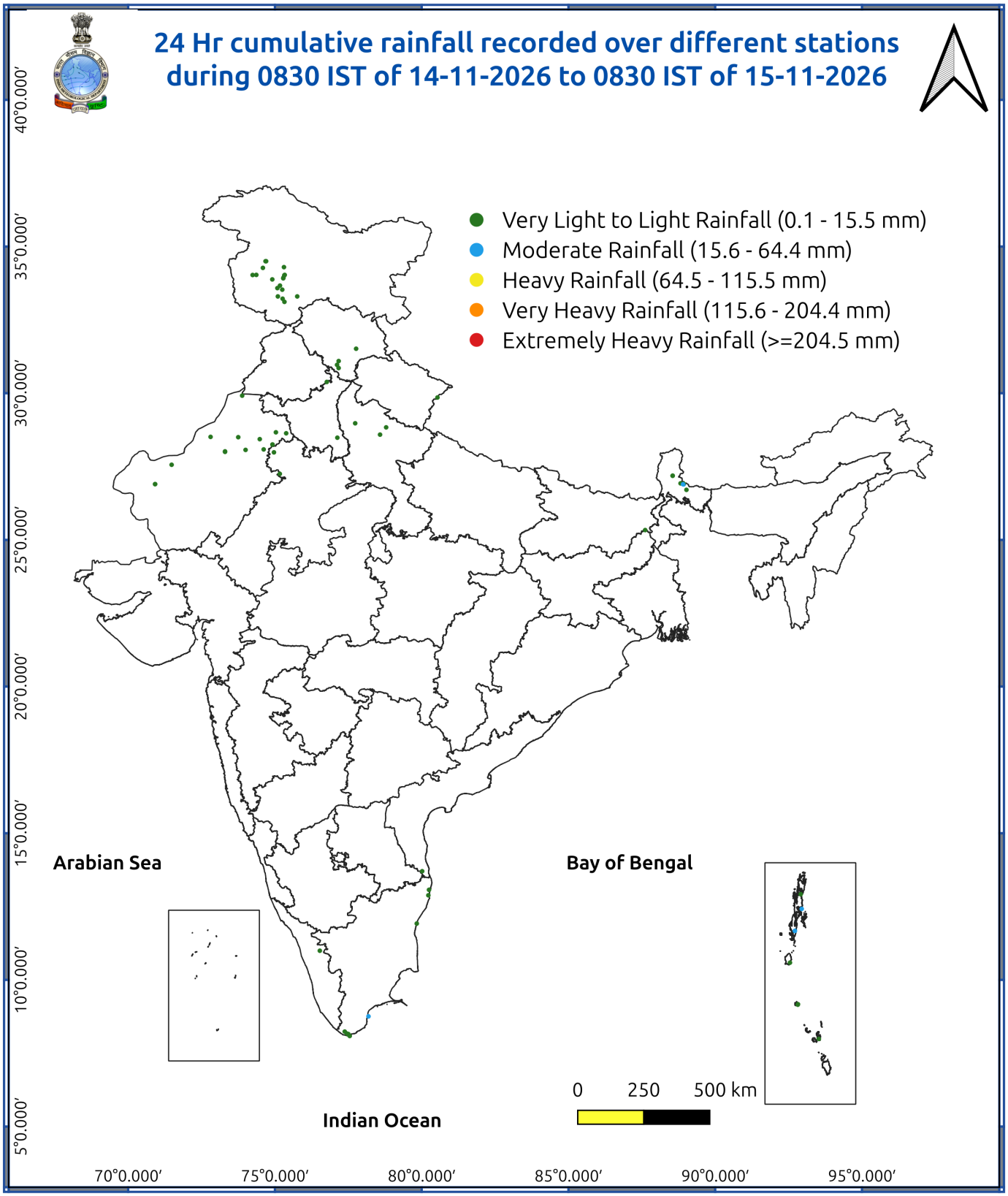


Fig. 4: Departure of Minimum Temp. Dated 2026-11-15



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 14-11-2026 to 0830 IST of 15-11-2026



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 on 19th & 20th November.**
- **Isolated very heavy rainfall also likely over Tamil Nadu, Puducherry & Karaikal on 18th & 19th 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, cotton and vegetables and matured fruits of banana and papaya immediately and keep the harvested produce in a safe place. Make necessary arrangements for draining excess water from fields pigeon pea and vegetable.
- In **Odisha**, harvest matured rice crop and seasonal vegetables immediately and store the harvested produce in a safe and covered place.Make provision to drain excess water from standing rice fields, vegetable nurseries and recently sown fields of mustard, groundnut, green gram and black gram.
- In **Tamil Nadu,** harvest matured rice and groundnut crops immediately and store the harvested produce in safe and dry places.

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.

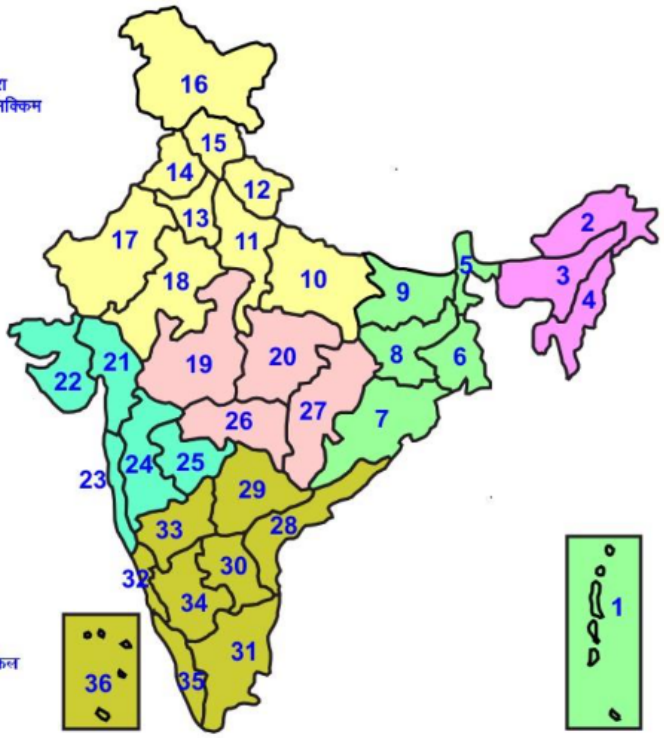
Legends & abbreviations:

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)