

2025-11-17

Time of Issue: 08:05:00 hours IST  
(Morning)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather, Forecast and Warnings:

- Light to moderate rainfall/thunderstorm at most/many places with **isolated heavy rainfall** very likely over Tamil Nadu during 18<sup>th</sup> -22<sup>nd</sup>, Kerala & Mahe during 17<sup>th</sup> - 20<sup>th</sup>; over Coastal Andhra Pradesh & Yanam, Rayalaseema on 17<sup>th</sup> & 18<sup>th</sup> and Andaman & Nicobar Islands during 18<sup>th</sup> -21<sup>st</sup> November; with isolated **very Heavy rainfall** over Tamil Nadu on 17<sup>th</sup> November.
- Thunderstorm with lightning very likely over Tamil Nadu, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Rayalaseema during 17<sup>th</sup> -20<sup>th</sup>; with **gusty winds (speed reaching 30-40 kmph)** likely over Andaman & Nicobar Islands during 17<sup>th</sup> -20<sup>th</sup> November.

#### Forecast of temperature and cold wave and cold day warnings:

- No significant change in minimum temperature likely over plains of northwest India, central, east and north Peninsular India during next three days and slight rise likely thereafter.
- **Cold wave to severe cold wave conditions** likely to prevail over some parts of Madhya Pradesh on 17<sup>th</sup> and over isolated parts on 18<sup>th</sup> & 19<sup>th</sup> November; **cold wave conditions** likely to prevail over isolated parts of West Rajasthan, Madhya Maharashtra and Vidarbha on 17<sup>th</sup> & 18<sup>th</sup>; over East Rajasthan and Chhattisgarh during 17<sup>th</sup> -19<sup>th</sup> and over Jharkhand on 17<sup>th</sup> November.
- **Shallow to moderate fog conditions** likely over Northeast India during the week.

\*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

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**Main Weather Observations:**

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Tamilnadu Puducherry & Karaikal and Andaman & Nicobar Islands; **at many places** over Kerala & Mahe and Lakshadweep ; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Tamilnadu Puducherry & Karaikal:** Pamban (dist Ramanathapuram) 6, Pondicherry (dist Puducherry), Karaikal (dist Karaikal) 4 Each, Nagapattinam (dist Nagapattinam), Cuddalore (dist Cuddalore) 3 Each, Kanyakumari (dist Kanyakumari) 1.
- ❖ **Fog Condition Observed (at 0530 hours of today): Moderate fog conditions:** at isolated places over Assam & Meghalaya **Shallow fog conditions:** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Bihar and East Uttar Pradesh
- ❖ **Visibility reported (at 0530 hours of today):** Assam & Meghalaya: Barapani/shillong (dist East Khasi Hills) 200.0; Bihar: Purnea (dist Purnia) 500.0; Nagaland, Manipur, Mizoram & Tripura: Kailashahar AP (dist Unakoti) 500.0; East Uttar Pradesh: Varanasi (babatpur) AP (dist Varanasi) 500.0;.
- ❖ **Minimum Temperature Departures (as on 16-11-2025): below normal(-1.6°C to -3.0°C)** at isolated places over Odisha, Jharkhand, Haryana-Chandigarh-Delhi, East Rajasthan, Marathwada, Vidarbha and Chhattisgarh. **appreciably below normal(-5.0°C to -3.1°C)** at many places over Telangana. **markedly below normal(< -5.0°C )** at most places over West Madhya Pradesh and East Madhya Pradesh. **The lowest minimum temperature** of 10.0°C was reported at ADILABAD (TELANGANA) over the Plains of India.
- ❖ **Maximum Temperature Departures (as on 16-11-2025): below normal(-1.6°C to -3.0°C)** at few places over Jharkhand, East Rajasthan, East Madhya Pradesh and Gujarat Region. **The highest maximum temperature** of 34.4°C was reported at KARWAR (KARNATAKA), and CANNANORE (KANNUR) (KERALA).

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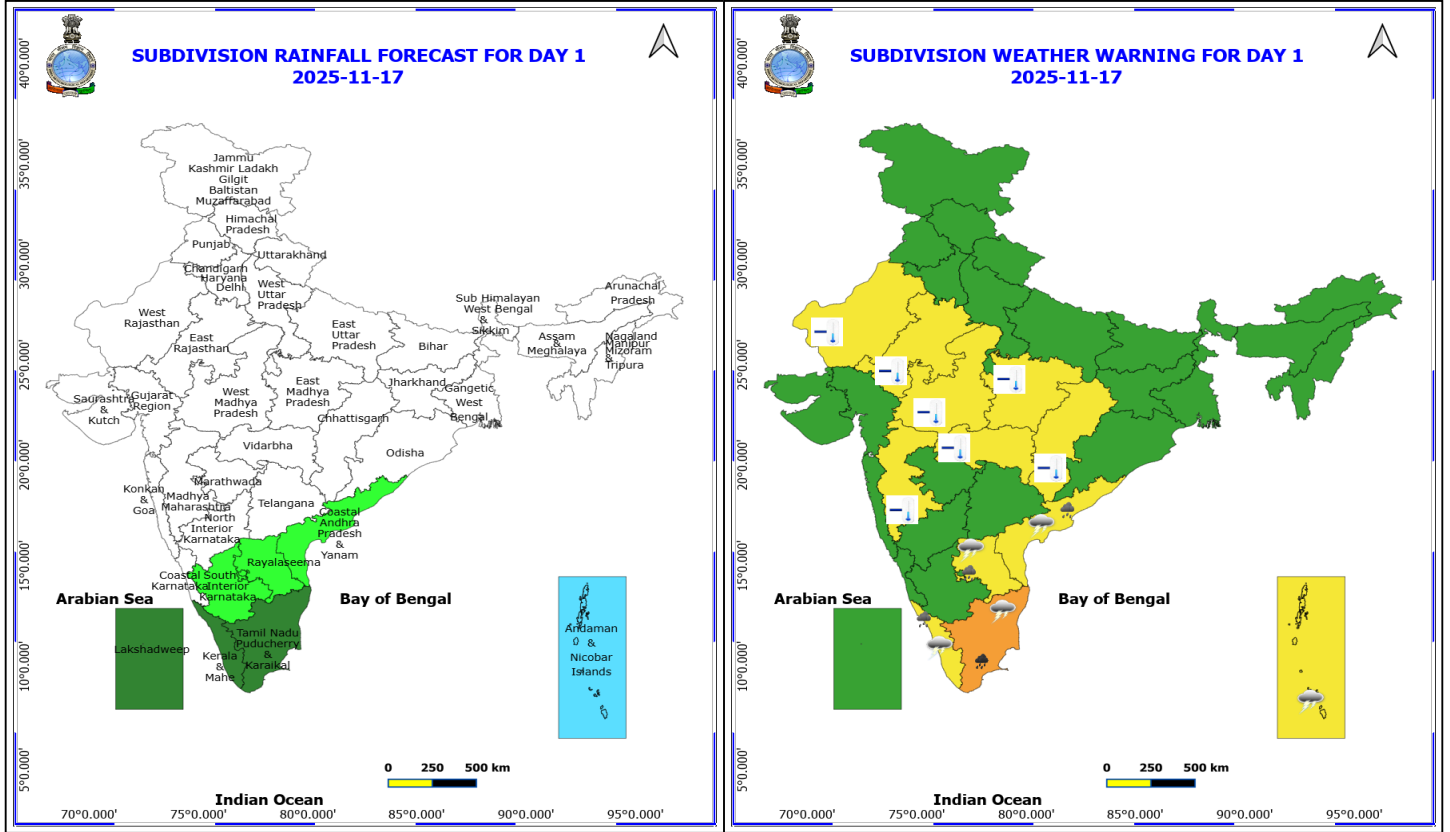
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### Meteorological Analysis (Based on 0530 hours IST)

- The **Low-Pressure area** over southwest Bay of Bengal and adjoining Sri Lanka coast persisted at 0530 hrs IST of today, the 17<sup>th</sup> November 2025. The associated upper air cyclonic circulation extended upto 7.6 km above mean sea level. It is likely to move slowly west-northwestwards during next 24 hours.
- The **cyclonic circulation** over Southeast Arabian sea and adjoining South Kerala coast at 0.9 km above mean sea level persists.

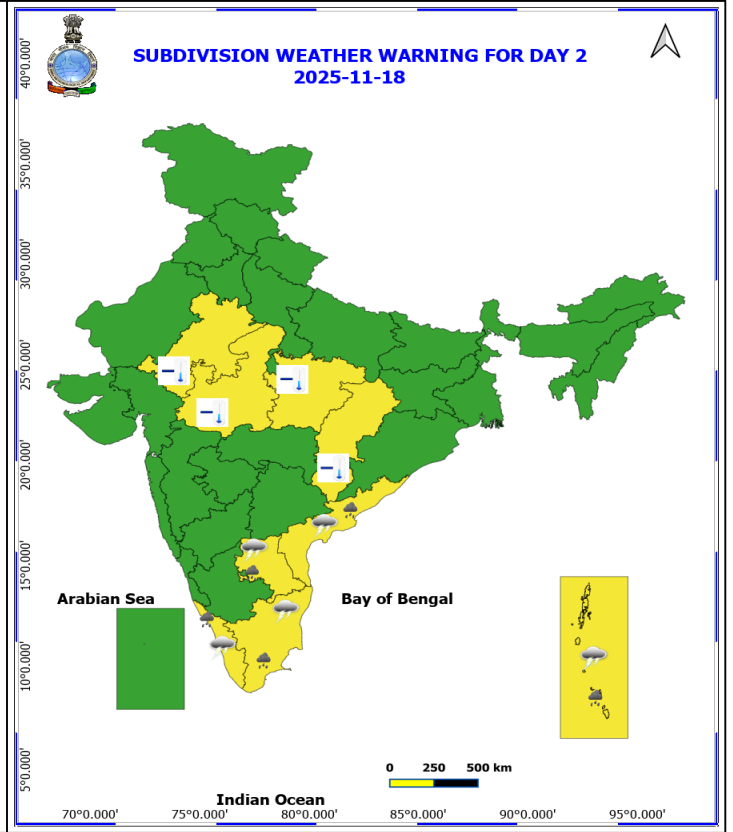
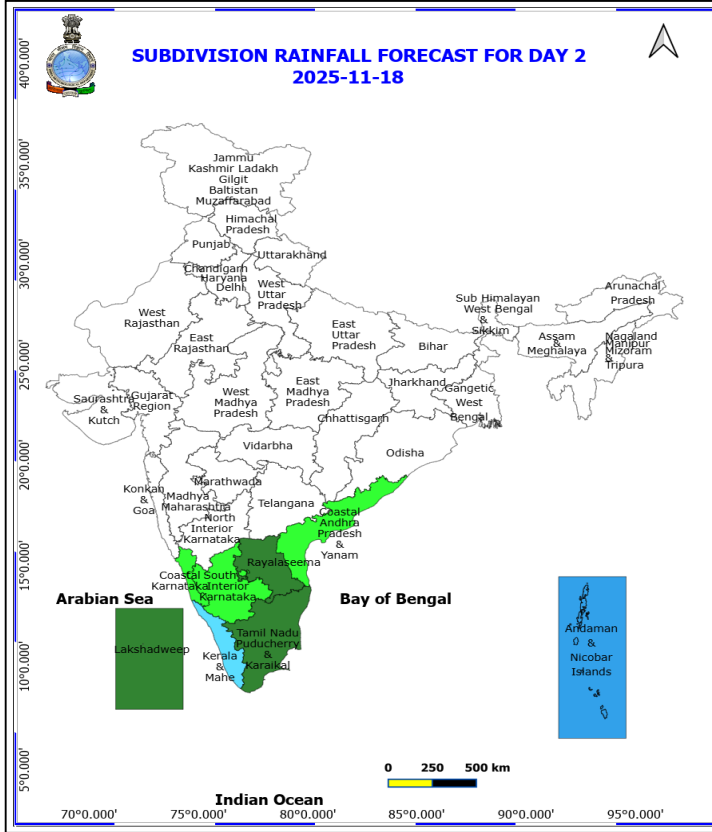
### Weather Outlook for subsequent 3 days

- fairly widespread to widespread rainfall activity likely over Tamil Nadu, Kerala and Islands.
- Isolated to Scattered rainfall activity over Coastal Andhra Pradesh, Coastal Karnataka and South Interior Karnataka.



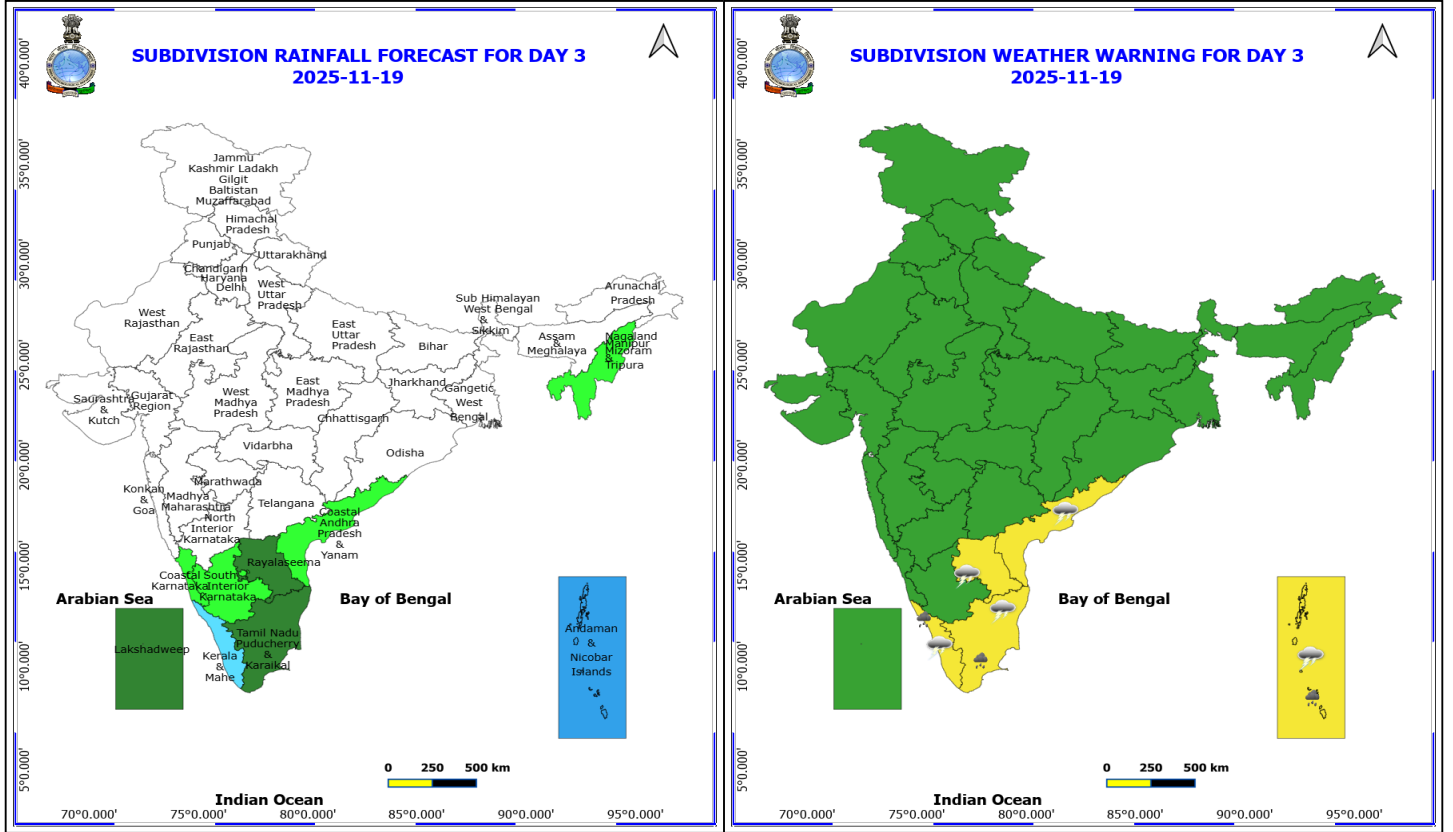
**17 November (Day 1)**

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
  - ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh and Kerala & Mahe.
  - ❖ **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 Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
  - ❖ **Cold wave conditions** very likely at isolated places over Chhattisgarh, Madhya Maharashtra, Madhya Pradesh, Rajasthan and Vidarbha.
- Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** will prevail over Gulf of Mannar, adjoining Comorin area, along and off Sri Lanka, Tamil Nadu, south Andhra Pradesh coasts, adjoining areas of westcentral, southwest Bay of Bengal.



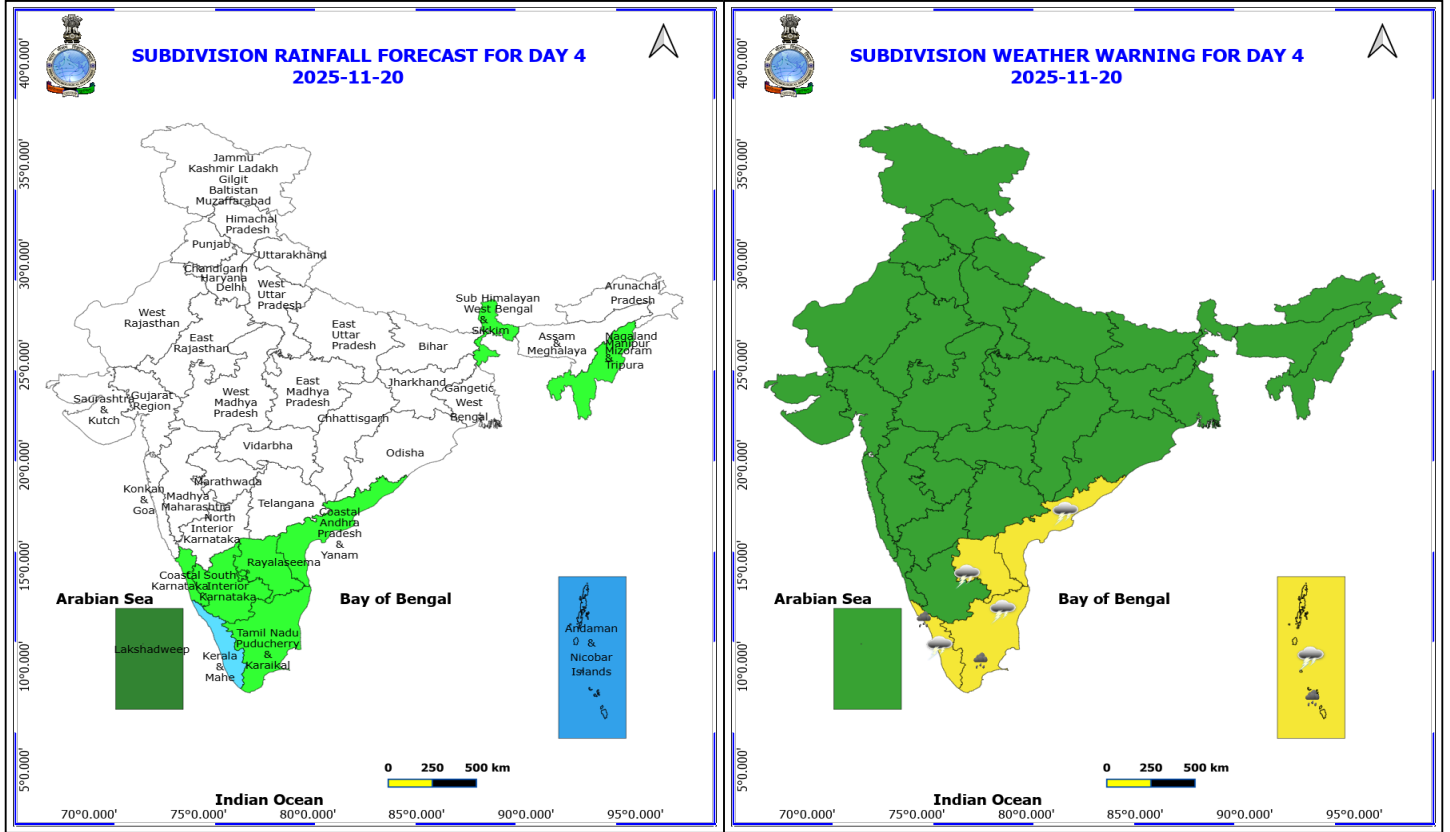
### 18 November (Day 2)

- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Kerala & Mahe 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 Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
  - ❖ **Cold wave conditions** very likely at isolated places over Chhattisgarh, East Rajasthan and Madhya Pradesh.
- Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** will prevail over Gulf of Mannar, adjoining Comorin area, along and off Tamil Nadu, south Andhra Pradesh coasts.



**19 November (Day 3)**

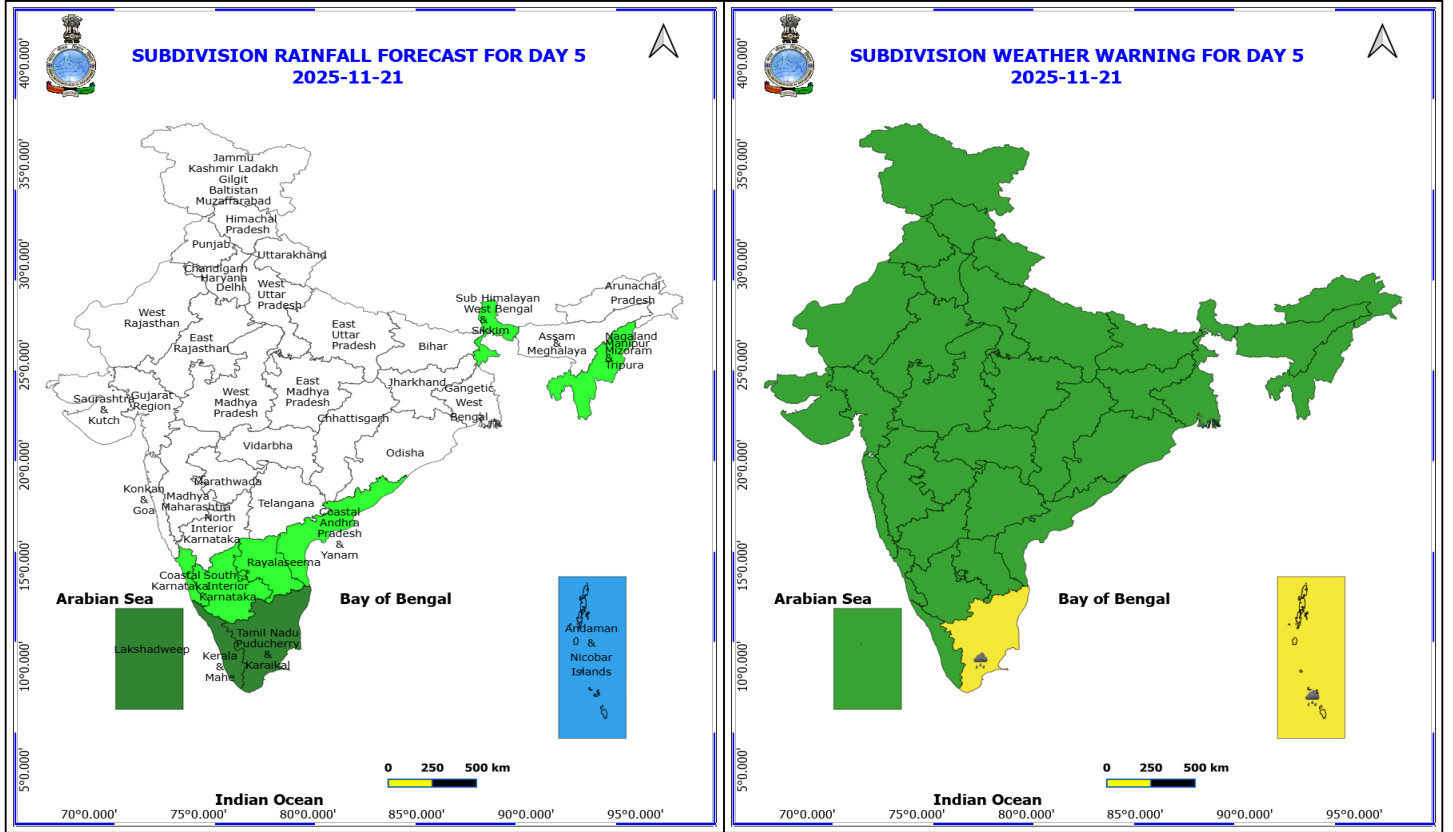
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
  - ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
  - ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea.



**20 November (Day 4)**

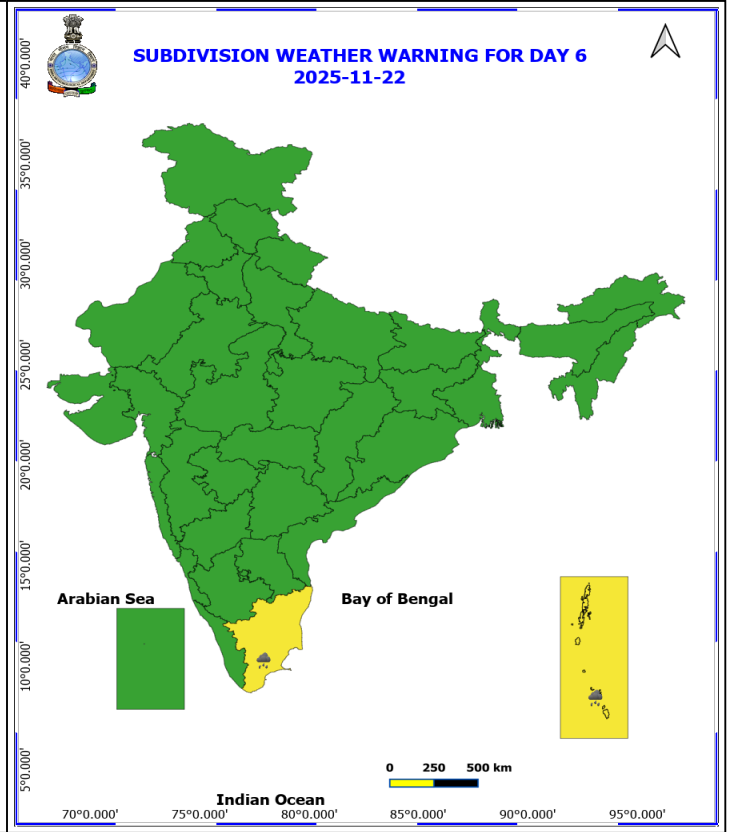
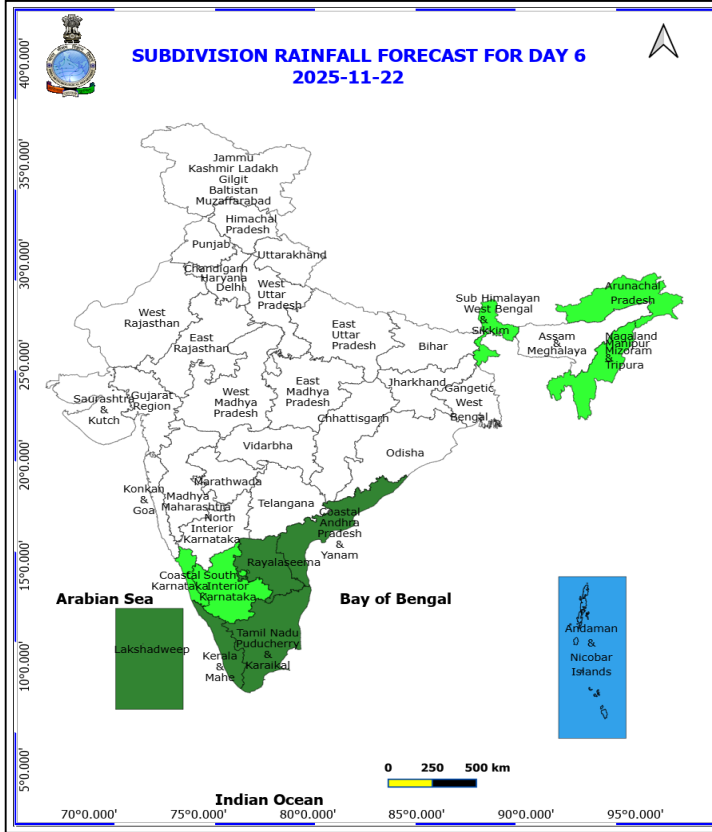
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
  - ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands.
  - ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea, many parts of southeast, some parts of eastcentral Bay of Bengal.

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**21 November (Day 5)**

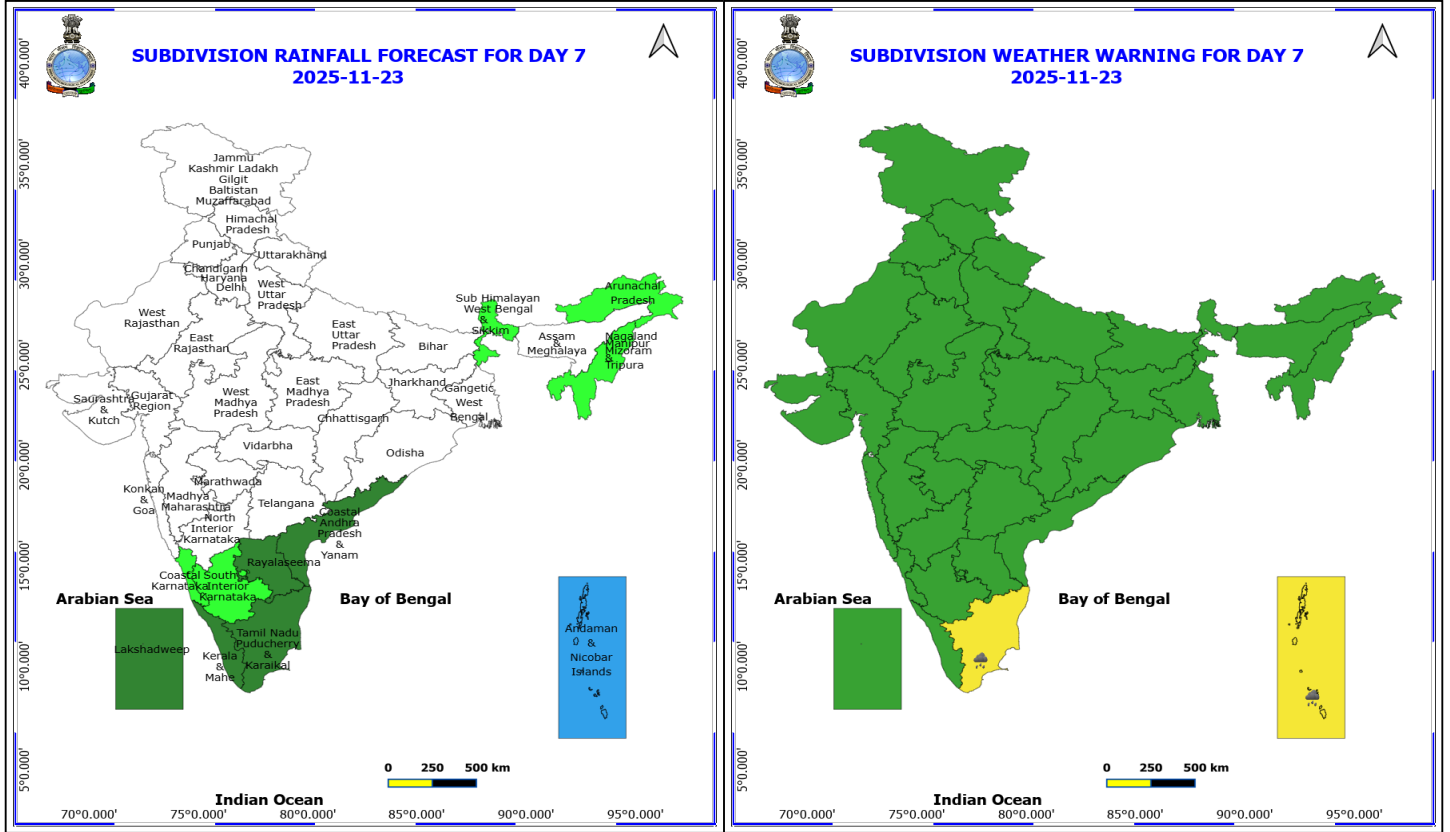
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands and Tamil Nadu Puducherry & Karaikal.
- Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea, many parts of southeast, some parts of eastcentral Bay of Bengal.



**22 November (Day 6)**

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

**No Fishermen Warning**



**23 November (Day 7)**

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

**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	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
3	ASSAM & MEHGHALAYA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4	N. M. M. & T.	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
5	S.H. WEST BENGAL & SIKKIM	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
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	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	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	SCT	SCT	ISOL	ISOL	SCT	SCT
31	TAMILNADU & PUDUCHERRY	SCT	SCT	SCT	ISOL	SCT	SCT	SCT
32	COSTAL KARNATAKA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA	SCT	FWS	FWS	FWS	SCT	SCT	SCT
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

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Fig. 1: Maximum Temperatures Dated 2025-11-16

Fig. 2: Departure of Maximum Temp. Dated 2025-11-16

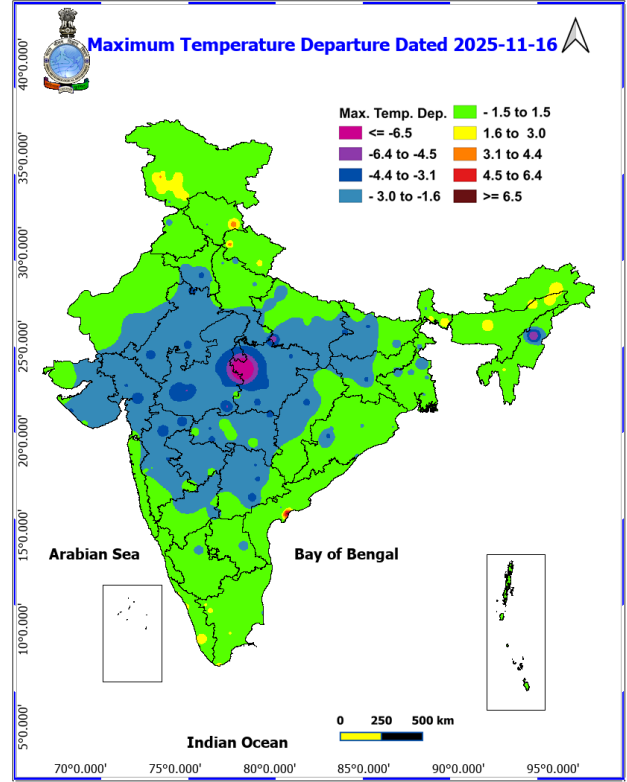
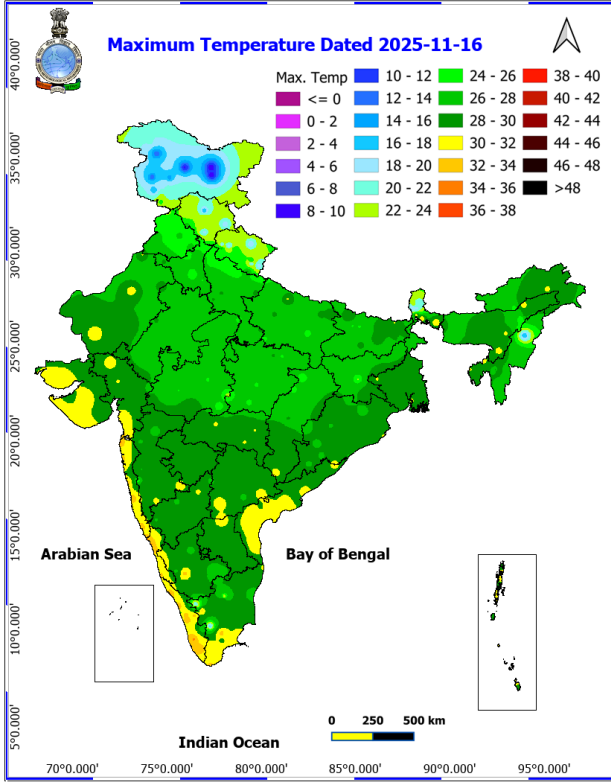
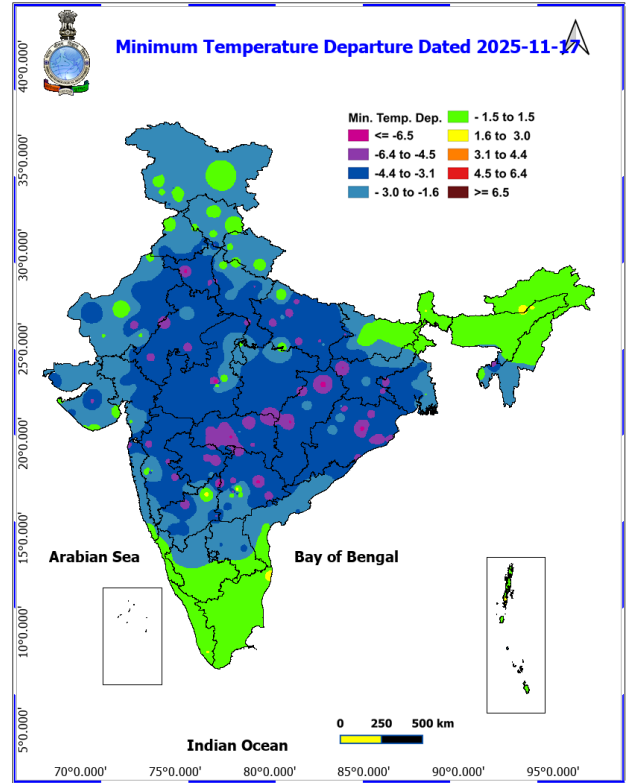
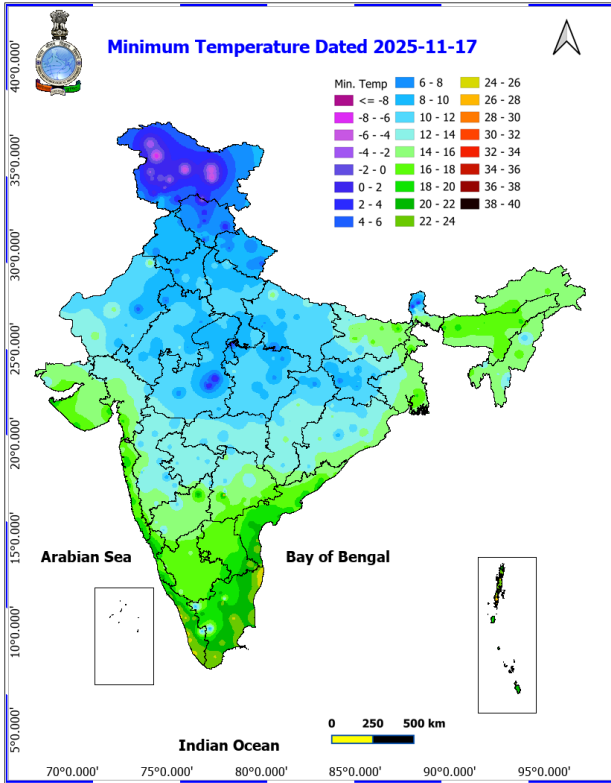
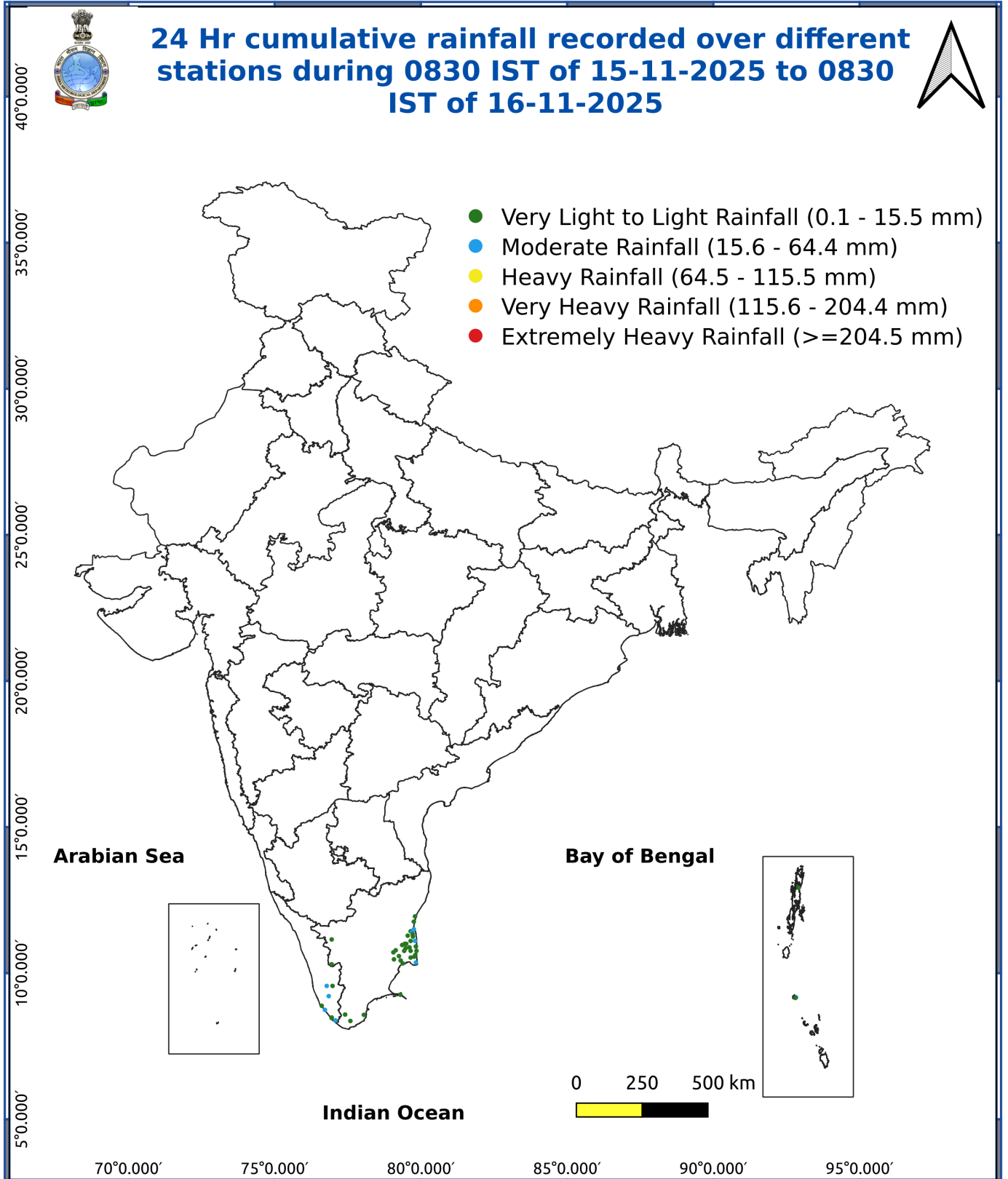


Fig. 3: Minimum Temperatures Dated 2025-11-16

Fig. 4: Departure of Minimum Temp. Dated 2025-11-16





### Impact & Action Suggested due to

- Isolated **very Heavy rainfall** over Tamil Nadu on 17<sup>th</sup> November.

### Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landslips/mudslips/landsinks/mudsinks.
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

### Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

### Agromet advisories for various parts of the country

#### Agromet advisories for likely impact of Heavy / Heavy to Very Heavy Rainfall / Cold Wave

- In **Tamil Nadu**, keep the harvested produce of rice and groundnut crops in safe places. Make arrangements to drain out excess water from fields of rice, sugarcane, cotton, black gram, maize and vegetables and plantations of coconut, banana, cinnamon and black pepper to avoid water stagnation. Provide support to banana plants with wooden poles to prevent them from falling.
- In **Kerala**, ensure adequate drainage facilities in fields of rice, vegetables and plantations of banana, coconut, cardamom and black pepper. Carry out propping in banana plants to prevent falling due to heavy rainfall and strong winds.
- In **Andhra Pradesh**, harvest matured crops of rice, groundnut and vegetables and shift the harvested produce to safer places. Make provision for draining out excess water from fields of rice, maize, pigeon pea, cotton, vegetables and plantations of banana.
- In **Andaman and Nicobar Islands**, store the harvested produce of rice in well-covered elevated places to prevent moisture damage. Harvest matured vegetables to avoid damage and provide support to papaya plants with stakes to prevent lodging.
- In **Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Vidarbha and Jharkhand**, apply light and frequent irrigation to the standing crops in the evening to protect the crops from low temperature stress or cold injuries. Use mulching and cover vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature. Cover banana bunches with 6% perforated plastic bags for protection from low temperatures.

#### Livestock / Poultry / Fishery

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.
- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

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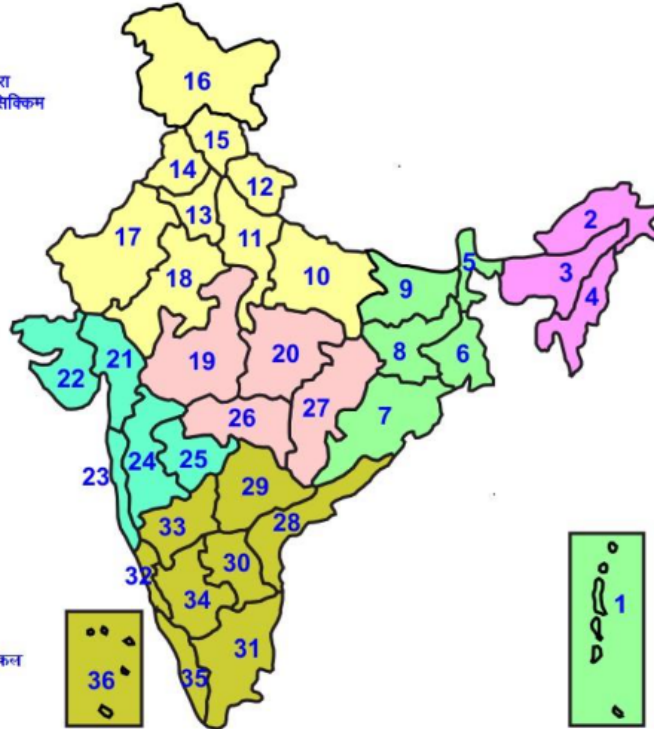


**Agromet advisories for likely impact of Thunderstorm / Gusty Winds**

- 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.

## 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 एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं चन्नम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं 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 Rajasthan
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 Widespread (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 | Hailstorm       | Dust Storm           | Dust Raising Winds |
| Strong surface winds     | Heat Wave       | Hot Day              | Warm Night         |
| Cold Wave                | Cold Day        | Ground Frost         | Fog                |
| Hot & Humid              |                 |                      |                    |

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## 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



Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm\*  
Extremely Heavy: > 204.4 mm/cm \*



When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .  
Severe Heat Wave: When actual maximum temperature  $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^{\circ}\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^{\circ}\text{C}$



When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
Severe Warm Night: When minimum temperature departure  $> 6.4^{\circ}\text{C}$ .



When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
Severe Cold Wave: Minimum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is  $\leq 4.0^{\circ}\text{C}$   
Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^{\circ}\text{C}$  & actual Minimum Temperature is  $\leq 15^{\circ}\text{C}$



When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions  
Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$



Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{km}$

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



Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Ice deposits on ground

Air temperature  $\leq 4^{\circ}\text{C}$  ( over Plains)



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



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



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 Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

\*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

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