

2025-11-17

Time of Issue: 13:13:00 hours IST
(Mid-Day)

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 18th -23rd; over Kerala & Mahe during 17th - 20th and on 22nd & 23rd; over Coastal Andhra Pradesh & Yanam, Rayalaseema on 17th & 18th and Andaman & Nicobar Islands during 19th November; with isolated **very Heavy rainfall** over Tamil Nadu on 17th; over Andaman & Nicobar Islands during 20th -22nd November.

Thunderstorm with lightning very likely over Tamil Nadu during 17th -21st; over Kerala & Mahe during 17th -19th; over Coastal Andhra Pradesh & Yanam and Rayalaseema on 17th & 18th; over Andaman & Nicobar Islands 18th -23rd November.

Temperature Conditions during past 24 hours till 0830 hours IST of today:

Minimum temperatures are in the range of **less than 6°C** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Himachal Pradesh, Uttarakhand; in the **range of 7-10°C** at many places over Punjab; at a few places over East Rajasthan, Haryana Chandigarh & Delhi, East Madhya Pradesh; at isolated places over north Uttar Pradesh, Madhya Maharashtra West Madhya Pradesh, Chhattisgarh.

Minimum temperatures are below normal by 2-4°C over many parts of northwest, central, east and north peninsular India.

The lowest minimum temperature of 5.0°C is reported at Rajgarh (West Madhya Pradesh) over the plains of India.

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 two days and rise in minimum temperature by 2-3°C over Northwest, Central and east India thereafter.

Cold wave to severe cold wave conditions likely to prevail over some parts of West Madhya Pradesh on 18th & 19th and cold wave conditions over isolated parts on 20th & 21th November; **cold wave conditions** likely to prevail over isolated parts of East Rajasthan and East Madhya Pradesh during 18th -20th; over Chhattisgarh, Marathwada, Telangana and Madhya Maharashtra on 18th & 19th; over Vidarbha on 18th November.

Shallow to moderate fog conditions likely over Northeast India during the week.

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Main Weather Observations:

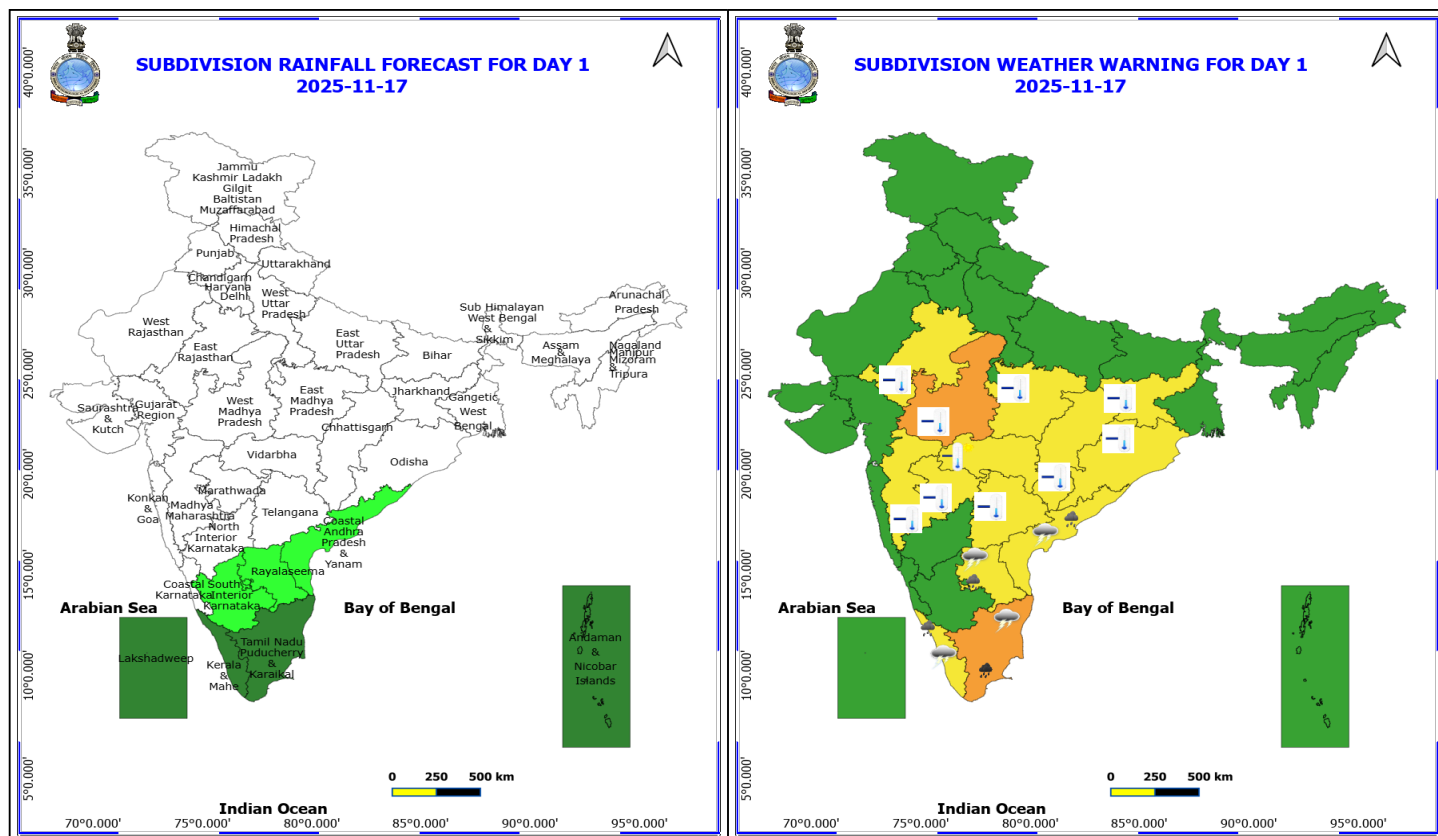
- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at a few places** over Lakshadweep; **at isolated places** over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Tamil Nadu, Puducherry & Karaikal:** Kodiayakarai (dist Nagapattinam) 12; Sembanarkoil PWD (dist Mayiladuthurai) 9; Thangachimadam (dist Ramanathapuram) 8; Vedaranyam (dist Nagapattinam), Thalaigayner (dist Nagapattinam) 7 Each; Kollidam (dist Mayiladuthurai), Sirkali (dist Mayiladuthurai), Tarangambadi (dist Mayiladuthurai), Pamban (dist Ramanathapuram) 6 Each; Mayiladuthurai AWS (dist Mayiladuthurai), Mayiladuthurai (dist Mayiladuthurai), Rameswaram (dist Ramanathapuram), Nannilam (dist Tiruvarur), Periya Kalapet ARG (dist Puducherry), Tirupoondi (dist Nagapattinam) 5 Each; Cuddalore (dist Cuddalore), Karaikal (dist Karaikal), Puducherry (dist Puducherry), Tiruvarur (dist Tiruvarur), Annamalai Nagar (dist Cuddalore), Collectorate (dist Cuddalore) 4 Each; Vedharanyam AWS (dist Nagapattinam), Chidambaram (dist Cuddalore), Parangipettai (dist Cuddalore), Nagapattinam (dist Nagapattinam), Kodavasal (dist Tiruvarur), Marakkanam (dist Villupuram), Bhuvanagiri (dist Cuddalore), Src Kudithangi (dist Cuddalore), Vanamadevi (dist Cuddalore), Velankanni (dist Nagapattinam) 3 Each; **Kerala & Mahe:** Konni (dist Pathanamthitta) 4; Piravam (dist Ernakulam), Koothattukulam AWS (dist Ernakulam) 3 Each.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy rain** at isolated places over Tamil Nadu, Puducherry & Karaikal.
- ❖ **Fog Condition Observed (at 0830 hours of today): Dense fog conditions:** at isolated places over Himachal Pradesh **Shallow fog conditions:** at a few places over East Uttar Pradesh, at isolated places over Himachal Pradesh.
- ❖ **Visibility reported (at 0830 hours of today): Himachal Pradesh:** Sundernagar (dist Mandi) 50.0, Mandi (dist Mandi) 500.0; **East Uttar Pradesh:** Varanasi (babatpur) AP (dist Varanasi), Fursatganj (dist Amethi), Kanpur Airforce (dist Kanpur Nagar) 500.0 Each.
- ❖ **Minimum Temperature Departures (as on 17-11-2025): below normal(-1.6°C to -3.0°C)** at most places over Marathwada; at few places over Konkan & Goa; at isolated places over Odisha, Jharkhand, West Madhya Pradesh, East Madhya Pradesh and Chhattisgarh. **appreciably below normal(-5.0°C to -3.1°C)** at many places over Vidarbha; at few places over Telangana and North Interior Karnataka. **The lowest minimum temperature of 5.0°C is reported at Rajgarh (West Madhya Pradesh) 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 is reported at KARWAR (KARNATAKA), and CANNANORE (KANNUR) (KERALA).**

Meteorological Analysis (Based on 0830 hours IST)

- The **Low-Pressure area** over southwest Bay of Bengal and adjoining Sri Lanka persisted at 0830 hrs IST of today, the 17th November 2025. The associated upper air cyclonic circulation extending upto 7.6 km above mean sea level also persists. It is likely to move slowly west-northwestwards during next 24 hours.
- A **low Pressure area** is likely to form over Southeast Bay of Bengal around 22nd November 2025. Thereafter It is very likely to move west-northwestwards and become more marked during subsequent 48 hours.
- The **cyclonic circulation** over Southeast Arabian sea and adjoining South Kerala coast at 0.9 km above mean sea level has become less marked.

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)

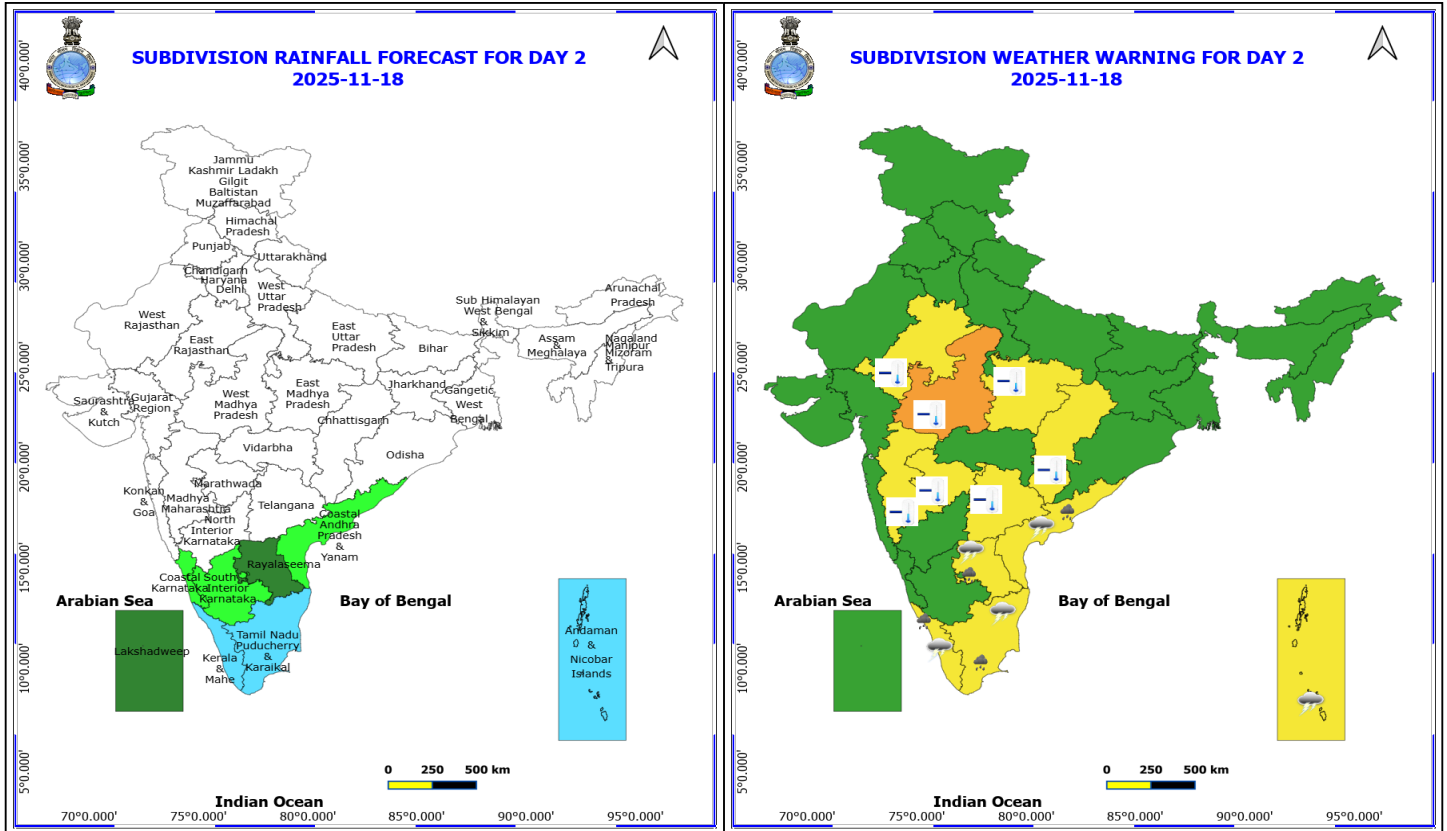
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Chhattisgarh, East Rajasthan, Jharkhand, Madhya Maharashtra, Madhya Pradesh, Marathwada, Odisha and Telangana.
- ❖ **Cold Day** very likely at isolated places over Vidarbha.
- Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph will prevail along and off south Kerala coast, adjoining Lakshadweep area, over Comorin area, over Gulf of Mannar, along and off Tamil Nadu, south Andhra Pradesh coasts & adjoining sea areas.

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18 November (Day 2)

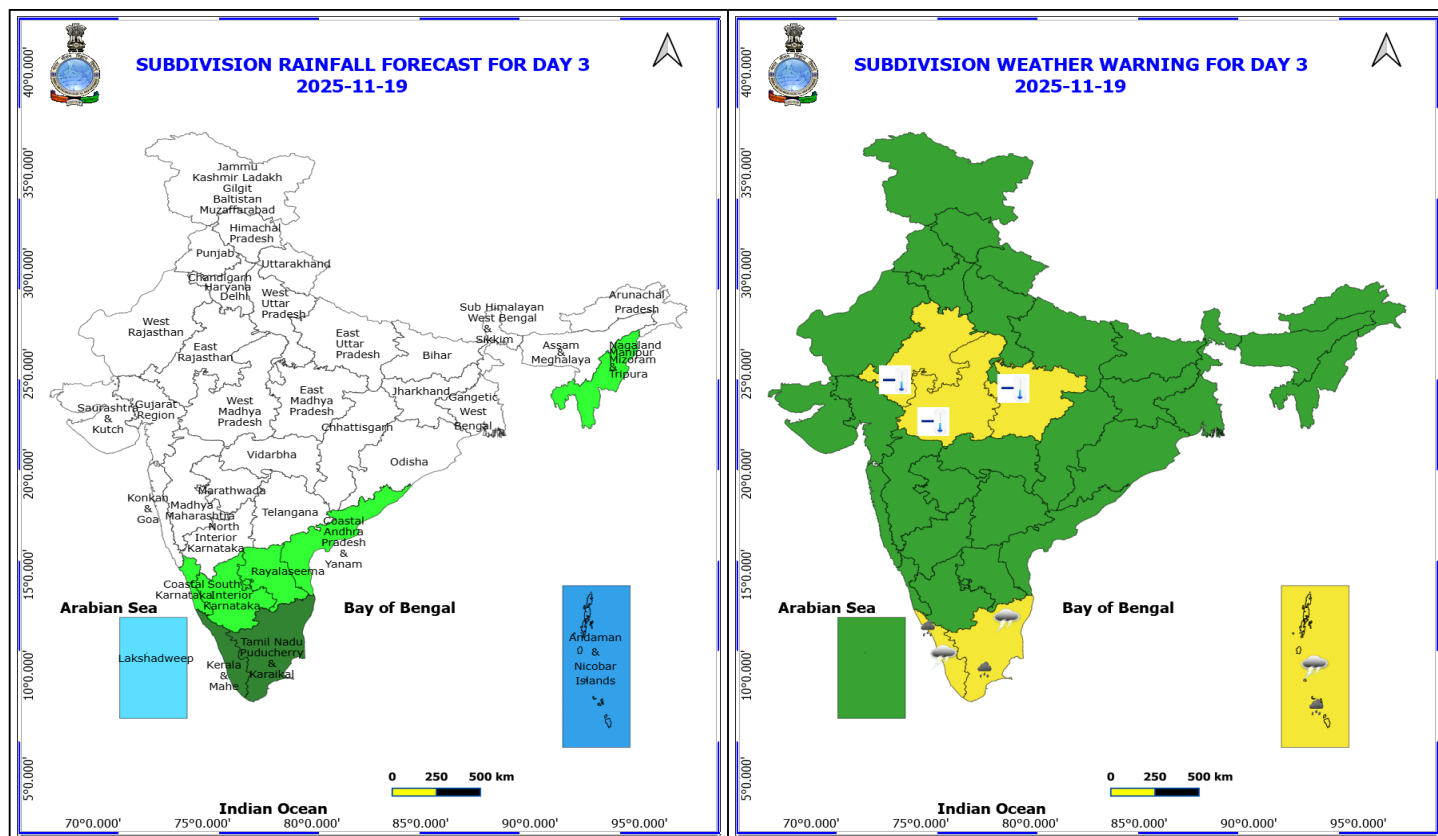
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.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

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19 November (Day 3)

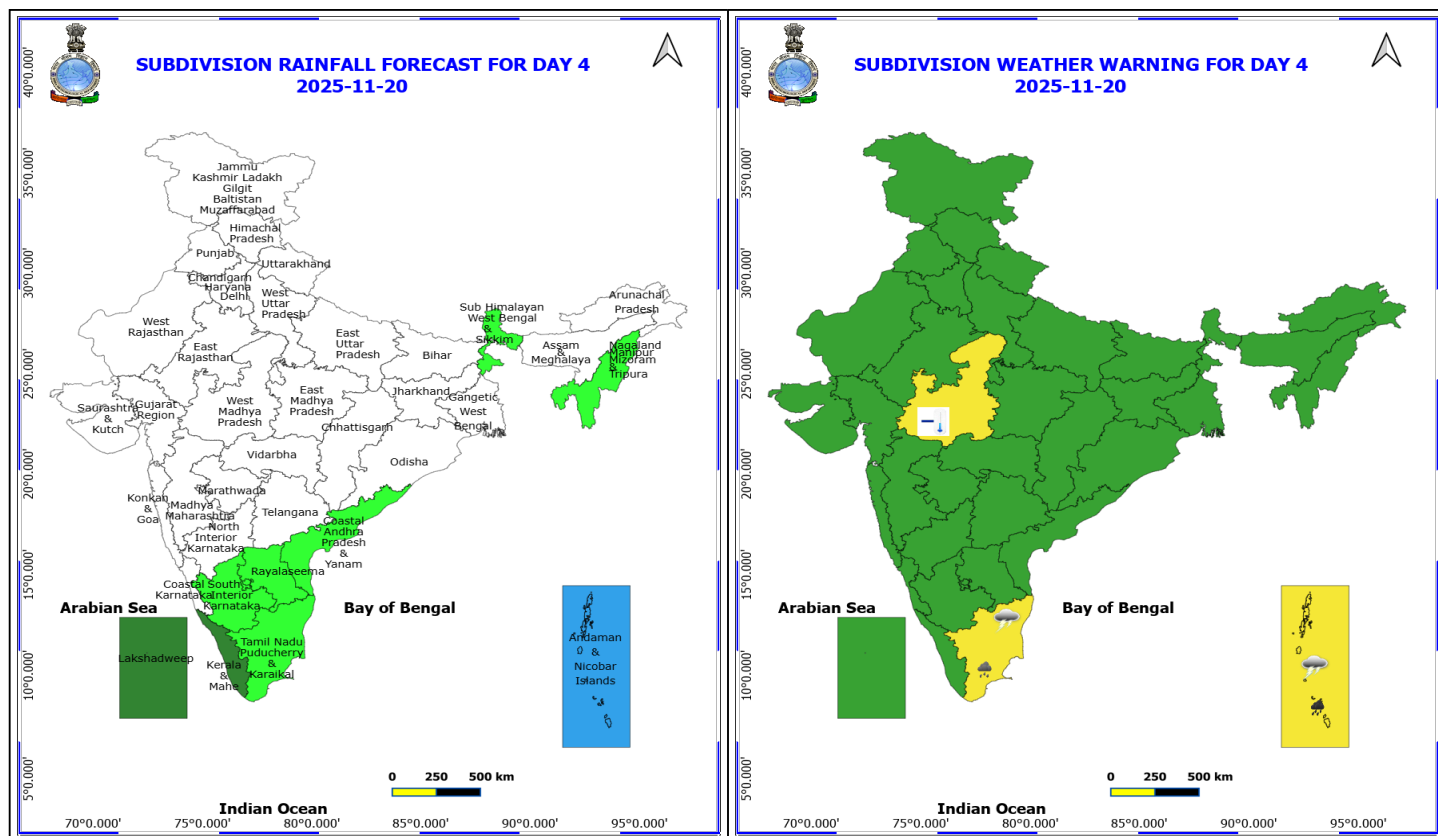
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over East Rajasthan and Madhya Pradesh.
- Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph will prevail over Andaman Sea, adjoining parts of southeast, eastcentral Bay of Bengal.

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20 November (Day 4)

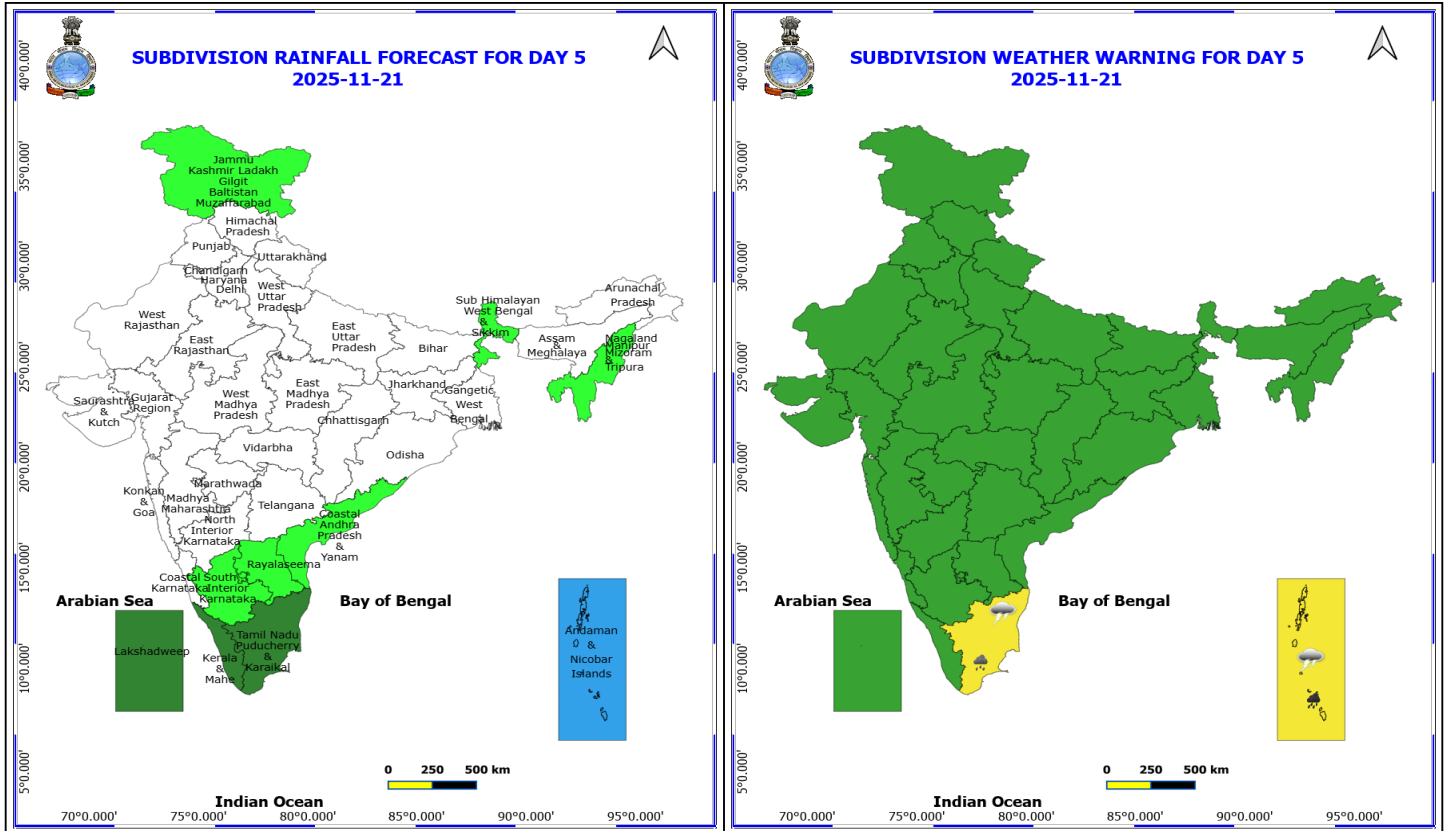
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Heavy Rainfall** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andaman & Nicobar Islands and Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** likely at isolated places over West Madhya Pradesh.
- Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph will prevail over some parts of westcentral Bay of Bengal, over Andaman Sea, adjoining parts of southeast, eastcentral Bay of Bengal.

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21 November (Day 5)

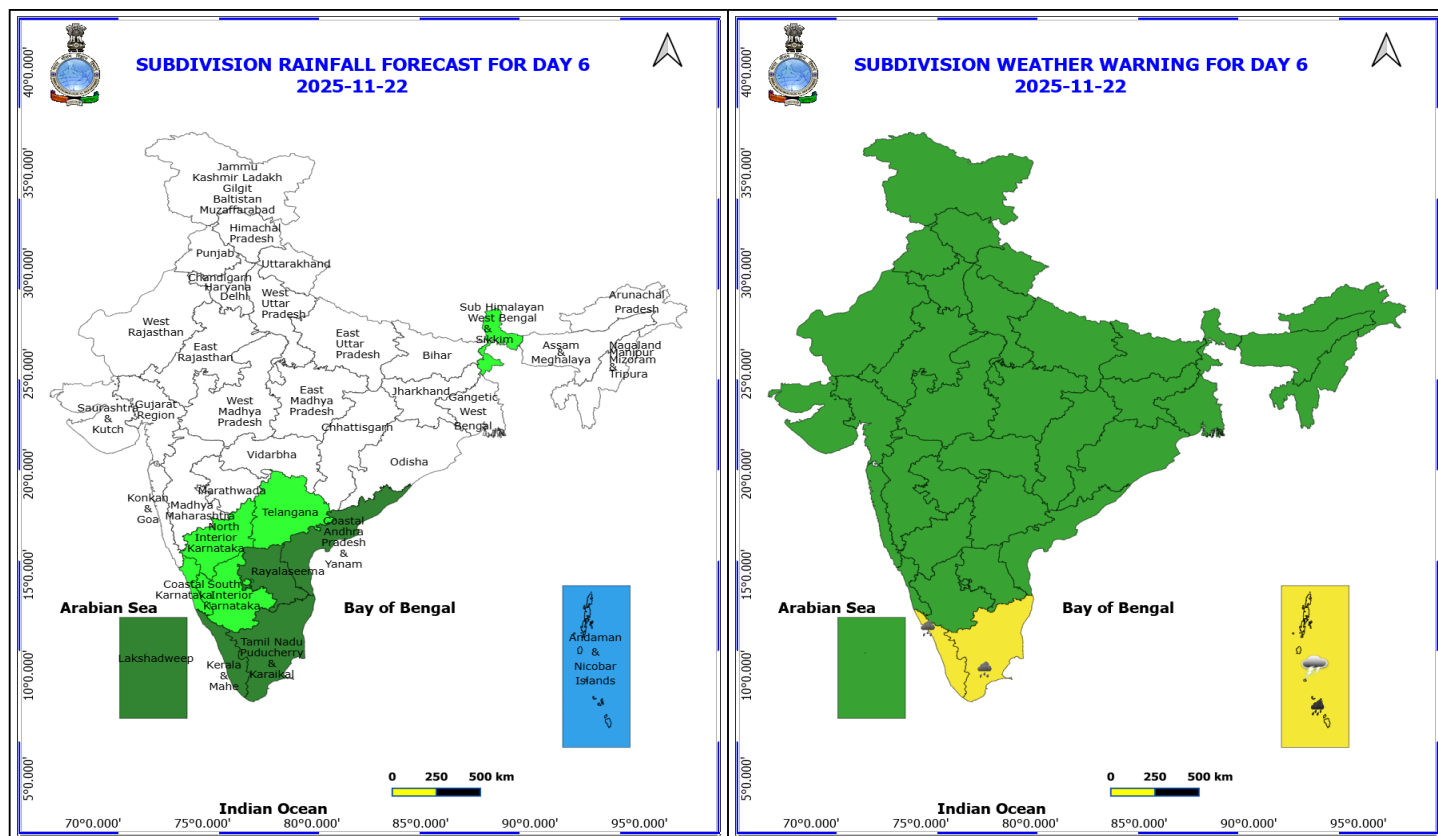
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Heavy Rainfall** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andaman & Nicobar Islands and Tamil Nadu Puducherry & Karaikal.
- Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph will prevail over Andaman Sea, adjoining, some parts of southeast Bay of Bengal.
- Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph will prevail over south Andaman Sea.

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22 November (Day 6)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andaman & Nicobar Islands.

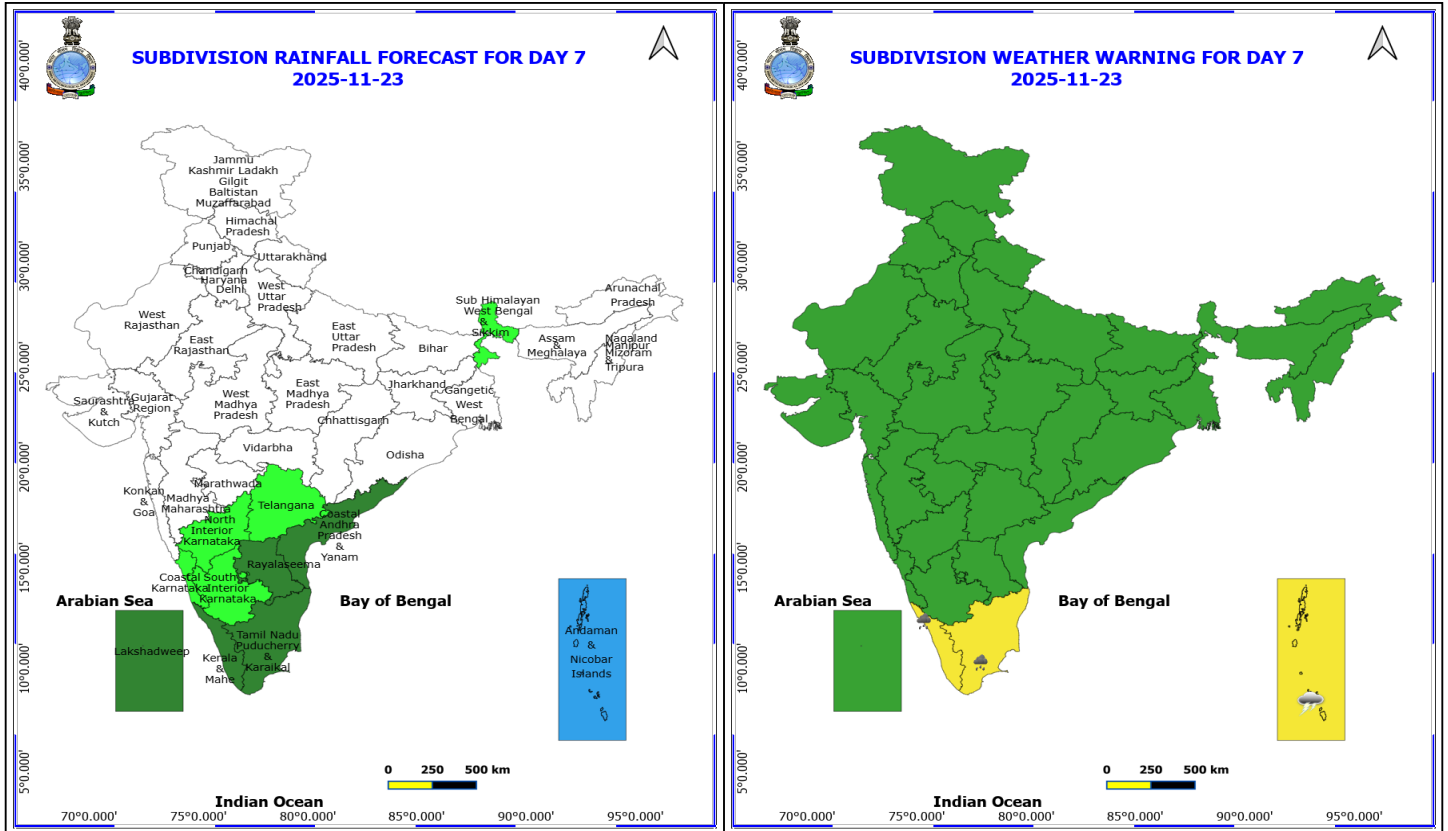
No Fishermen Warning

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23 November (Day 7)

- ❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andaman & Nicobar Islands.

No Fishermen Warning

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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	SCT	FWS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4	N. M. M. & T.	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
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	ISOL	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	ISOL	ISOL
30	RAYALASEEMA	ISOL	SCT	ISOL	ISOL	ISOL	SCT	SCT
31	TAMILNADU & PUDUCHERRY	SCT	FWS	SCT	ISOL	SCT	SCT	SCT
32	COSTAL KARNATAKA	DRY	ISOL	ISOL	DRY	DRY	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA	SCT	FWS	SCT	SCT	SCT	SCT	SCT
36	LAKSHDWEEP	SCT	SCT	FWS	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

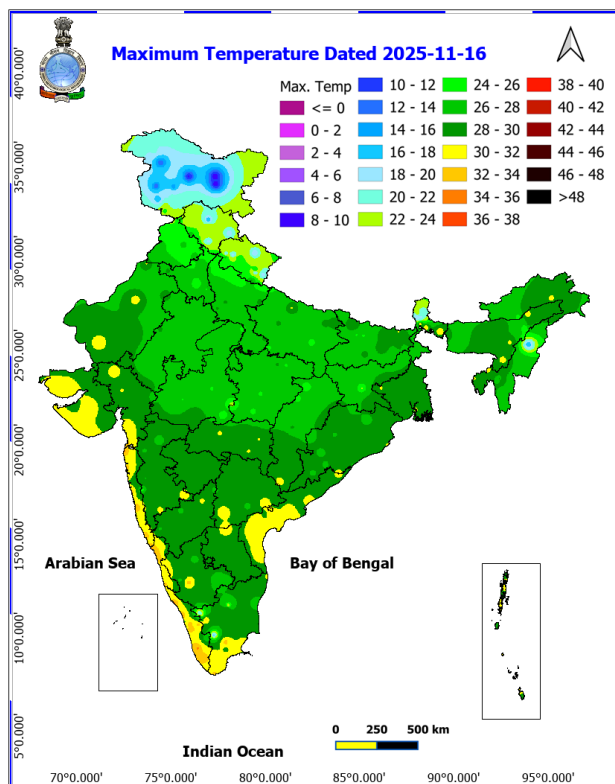


Fig. 2: Departure of Maximum Temp. Dated 2025-11-16

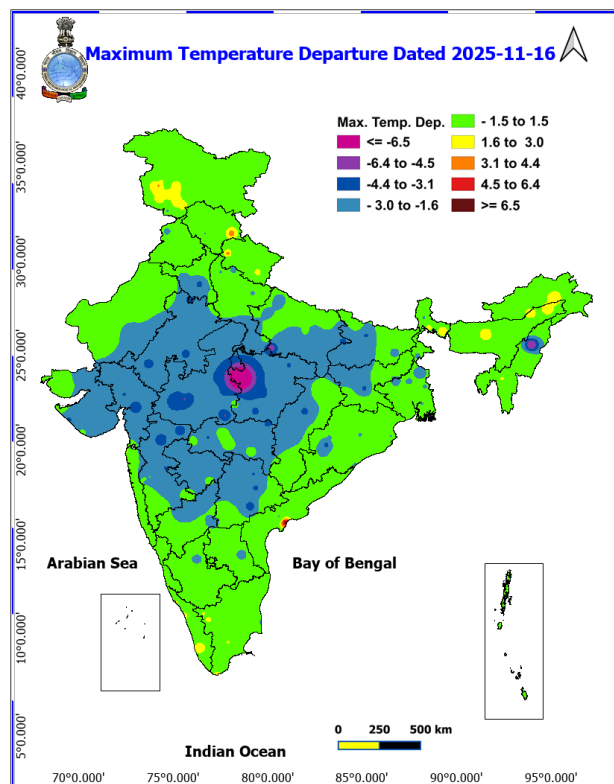


Fig. 3: Minimum Temperatures Dated 2025-11-17

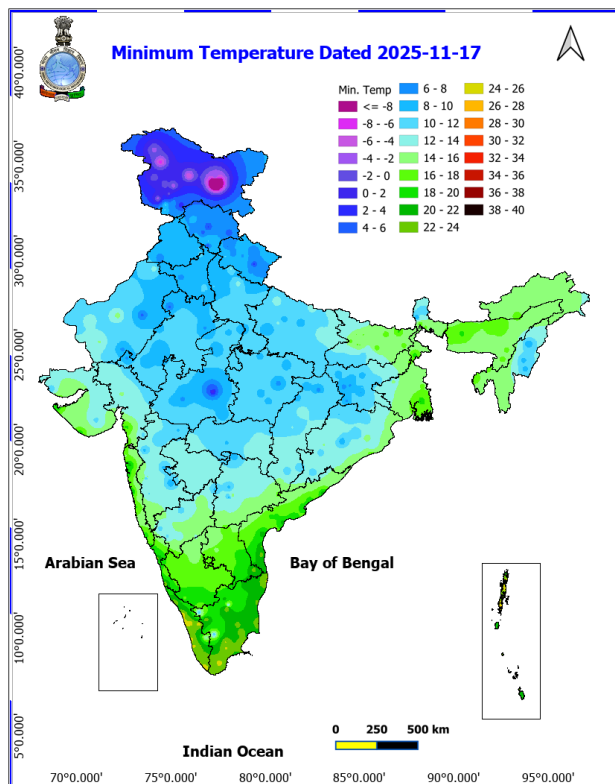
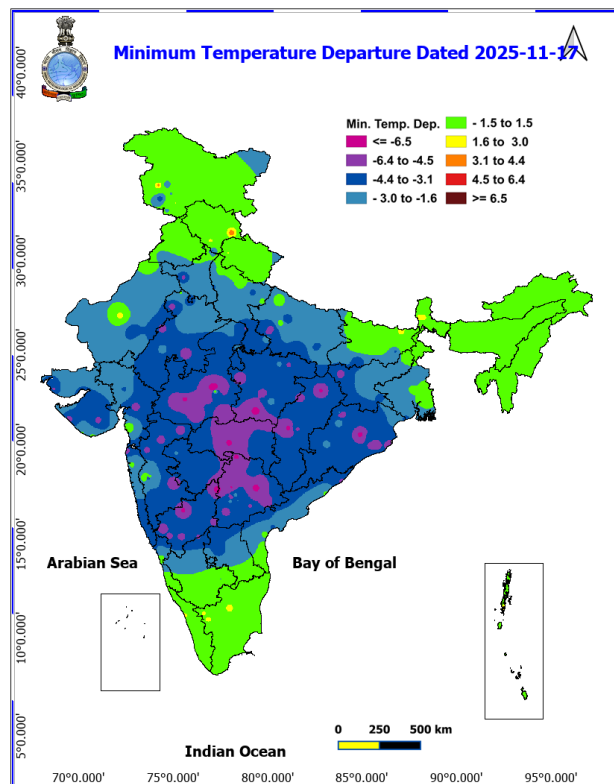
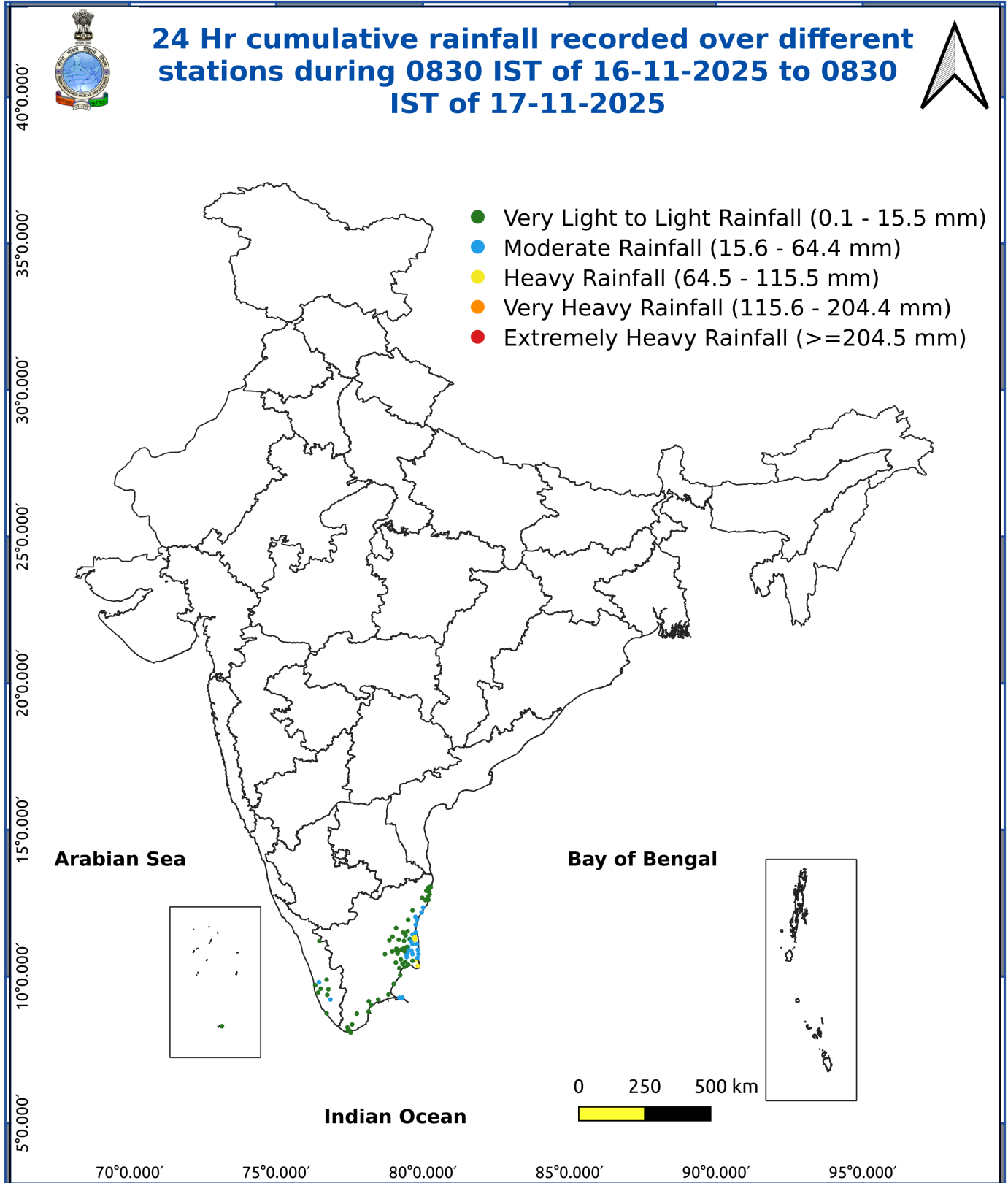


Fig. 4: Departure of Minimum Temp. Dated 2025-11-17





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Impact & Action Suggested due to

Isolated **very Heavy rainfall** over Tamil Nadu on 17th; over Andaman & Nicobar Islands during 20th -22nd 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. 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

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moisture damage. Harvest matured vegetables to avoid damage and provide support to papaya plants with stakes to prevent lodging.

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.

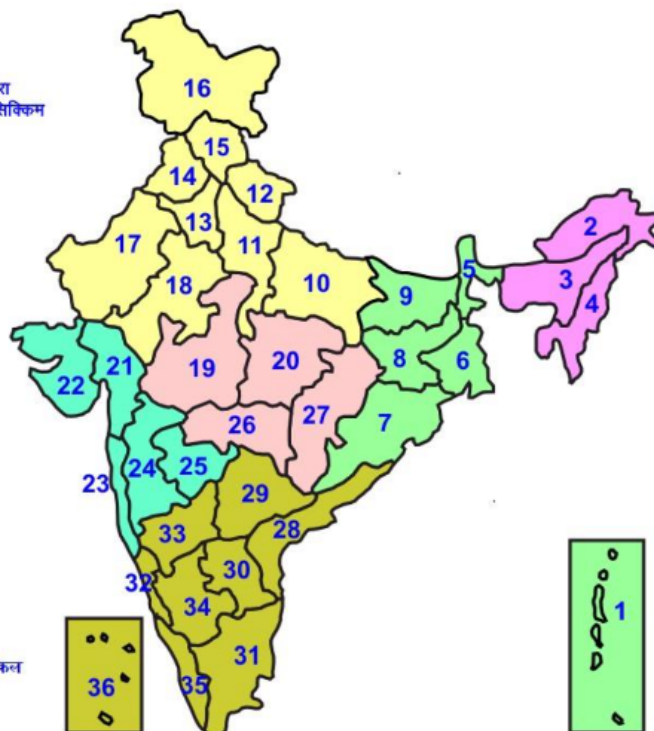
Agromet advisories for likely impact of Thunderstorm / Gusty Winds

(Based on the IBF and advisories issued by different AMFUs)

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 चंडीगढ़ 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 मराठावाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 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. Marathwada
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

 Thunderstorm & Lightning

 Strong surface winds

 Cold Wave

 Hot & Humid

 Very Heavy Rain

 Hailstorm

 Heat Wave

 Cold Day

 Extremely Heavy Rain

 Dust Storm

 Hot Day

 Ground Frost

 Heavy Snow

 Dust Raising Winds

 Warm Night

 Fog

*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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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°C to 6.4°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°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°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°C to -6.4°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°C to -6.4°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 at least 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)

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