

2025-10-16

Time of Issue: 13:16:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Withdrawal of Southwest Monsoon:

Southwest monsoon has withdrawn from the entire country today, the 16th October, 2025. Simultaneously, the Northeast Monsoon rainfall activity has commenced over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh, Rayalaseema, South Interior Karnataka and Kerala-Mahe today, the 16th October, in association with following features:

- An upper air cyclonic circulation lies over Comorin area & neighbourhood extending upto mid tropospheric levels.
- Easterly / northeasterly winds set-in over southern peninsular India, south & adjoining central Bay of Bengal in the lower tropospheric levels,
- Fairly widespread rainfall occurred over Tamil Nadu, Puducherry & Karaikal and adjoining area of south Coastal Andhra Pradesh and Kerala during the past 24 hrs. Rainfall also occurred at a few places over Rayalaseema and adjoining areas of South Interior Karnataka during the same period.
- Isolated heavy to very heavy rainfall occurred over Tamilnadu during the same period.

Weather Systems and Warnings:

South Peninsular India:

Light to moderate rain/thunderstorm at some/ isolated places with isolated **heavy rainfall** over Tamil Nadu Kerala & Mahe during 16th -22st; Lakshadweep, South Interior Karnataka during 16th -19th; Coastal Karnataka, Coastal Andhra Pradesh & Yanam and Rayalaseema on 16th & 17th; North Interior Karnataka on 16th October; with **very heavy rainfall** over Tamil Nadu, Kerala & Mahe and Lakshadweep on 16th & 17th October.

Thunderstorm with lightning over the region for next 5 days.

East & Central India:

Thunderstorm with lightning and gusty winds (speed reaching 30-40 kmph) over south Odisha on 16th October.

West India:

Thunderstorm with lightning over Konkan & Goa and Madhya Maharashtra on 16th & during 18th -20th; Marathwada on 16th October.

Weather Forecast and Warnings:

*Red color warning does not mean "Red Alert" Red color warning means "Take Action"

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South Peninsular India:

Light to moderate rain/thunderstorm at some/ isolated places with isolated **heavy rainfall** over Tamil Nadu during 16th -20th; Kerala & Mahe during 16th -21st; Lakshadweep during 16th -21st; Coastal Andhra Pradesh & Yanam and Rayalaseema on 16th & 17th; Coastal & South Interior Karnataka on 16th October; with **very heavy rainfall** over Tamil Nadu, Kerala & Mahe on 16th & 17th October.

Thunderstorm with lightning and gusty wind (speed reaching 30-40 kmph) over the region for next 5 days.

East & Central India:

Thunderstorm with lightning and gusty winds (speed reaching 30-40 kmph) over south Odisha on 16th with lightning over Madhya Pradesh on 16th October.

West India:

Thunderstorm with lightning over Konkan & Goa on 16th & 17th with isolated **heavy rainfall** over Marathawada on 16th October.

Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at many places** over Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka, Kerala & Mahe and Lakshadweep; **at a few places** over Andaman & Nicobar Islands, Madhya Maharashtra, Rayalaseema and South Interior Karnataka; **at isolated places** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, East Madhya Pradesh, Marathwada, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka; **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**: Tiruchendur (dist Toothukudi), Kayalpattinam (dist Toothukudi) 15 Each; Thiruchendur AWS (dist Toothukudi) 13; Tuticorin (dist Toothukudi), Tuticorin Rly ARG (dist Toothukudi), Arcot (dist Ranipet) 9 Each; Satankulam (dist Toothukudi) 8; Nanguneri (dist Tirunelveli), Nambiyar Dam (dist Tirunelveli) 7 Each; Mayiladuthurai AWS (dist Mayiladuthurai), Palayamkottai (dist Tirunelveli), Srivaikuntam (dist Toothukudi), Tuticorin Airport ARG (dist Toothukudi), Sembanarkoil PWD (dist Mayiladuthurai), Moolaikaraipatti (dist Tirunelveli) 6 Each; Sankaridurg (dist Salem), Radhapuram (dist Tirunelveli), Ottapadiram (dist Toothukudi), Tirunelveli AWS (dist Tirunelveli), Kulasekarapattinam (dist Toothukudi), Alakarai Estate (dist Nilgiris) 5 Each; **Konkan & Goa**: Vaibhavwadi (dist Sindhudurg) 7; Pernem (dist North Goa) 5; **Telangana**: Jainoor (dist Kumaram Bheem) 5; **Kerala & Mahe**: Kurudamannil (dist Pathanamthitta), Kochi IAF (dist Ernakulam), Ulanad AWS (dist Pathanamthitta) 5 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. **Heavy rain** at isolated places over Konkan & Goa.

❖ **Minimum Temperature Departures (as on 16-10-2025): markedly above normal(> 5.1°C)** at isolated places over Assam & Meghalaya and Bihar. **appreciably above normal(3.1°C to 5.0°C)** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Saurashtra & Kutch, Konkan & Goa and Madhya Maharashtra. **above normal(1.6°C to 3.0°C)** at many places over Uttarakhand and Lakshadweep; at few places over Andaman & Nicobar Islands, Punjab, Marathwada and Vidarbha; at isolated places over Odisha, West Rajasthan, East Rajasthan, East Madhya Pradesh, Gujarat Region, Chhattisgarh, Telangana, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over West Madhya Pradesh; at most places over Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka, South Interior Karnataka and Kerala & Mahe; at few places over Gangetic West Bengal and East Uttar Pradesh. **The lowest minimum temperature** of 13.5°C is reported at UNA (HIMACHAL PRADESH) over the Plains of India.

❖ **Maximum Temperature Departures (as on 15-10-2025): markedly above normal(> 5.1°C)** at isolated places over Assam & Meghalaya, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Chhattisgarh and Coastal Andhra Pradesh & Yanam. **appreciably above normal(3.1°C to 5.0°C)** at few places over Arunachal Pradesh, Sub Himalayan West Bengal & Sikkim and Coastal Karnataka; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Vidarbha. **above normal(1.6°C to 3.0°C)** at few places over Lakshadweep; at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, Himachal Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over Jharkhand, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, West Rajasthan and Gujarat Region; at most places over Marathwada, Rayalaseema, North Interior Karnataka and South Interior Karnataka; at few places over Bihar, West Madhya Pradesh and East Madhya Pradesh; at isolated places over East Rajasthan. **The highest maximum temperature** of 36.8°C is reported at BARMER (RAJASTHAN).

Meteorological Analysis (Based on 0830 hours IST)

Southwest monsoon has withdrawn from the entire country today, the 16th October 2025. Simultaneously, the Northeast Monsoon rainfall activity has commenced over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh, Rayalaseema, South Interior Karnataka and Kerala-Mahe today, the 16th October, in association with following features:

(a) An **upper air cyclonic circulation** lies over Comorin area & neighbourhood extending upto mid tropospheric levels.

(b) Easterly / northeasterly winds set-in over southern peninsular India, south & adjoining central Bay of Bengal in the lower tropospheric levels,

(c) Fairly widespread rainfall occurred over Tamil Nadu, Puducherry & Karaikal and adjoining area of south coastal Andhra Pradesh and Kerala during the past 24 hrs. Rainfall also occurred at a few places over Rayalaseema and adjoining areas of South Interior Karnataka during the same period.

(d) Isolated heavy to very heavy rainfall occurred over Tamilnadu during the same period.

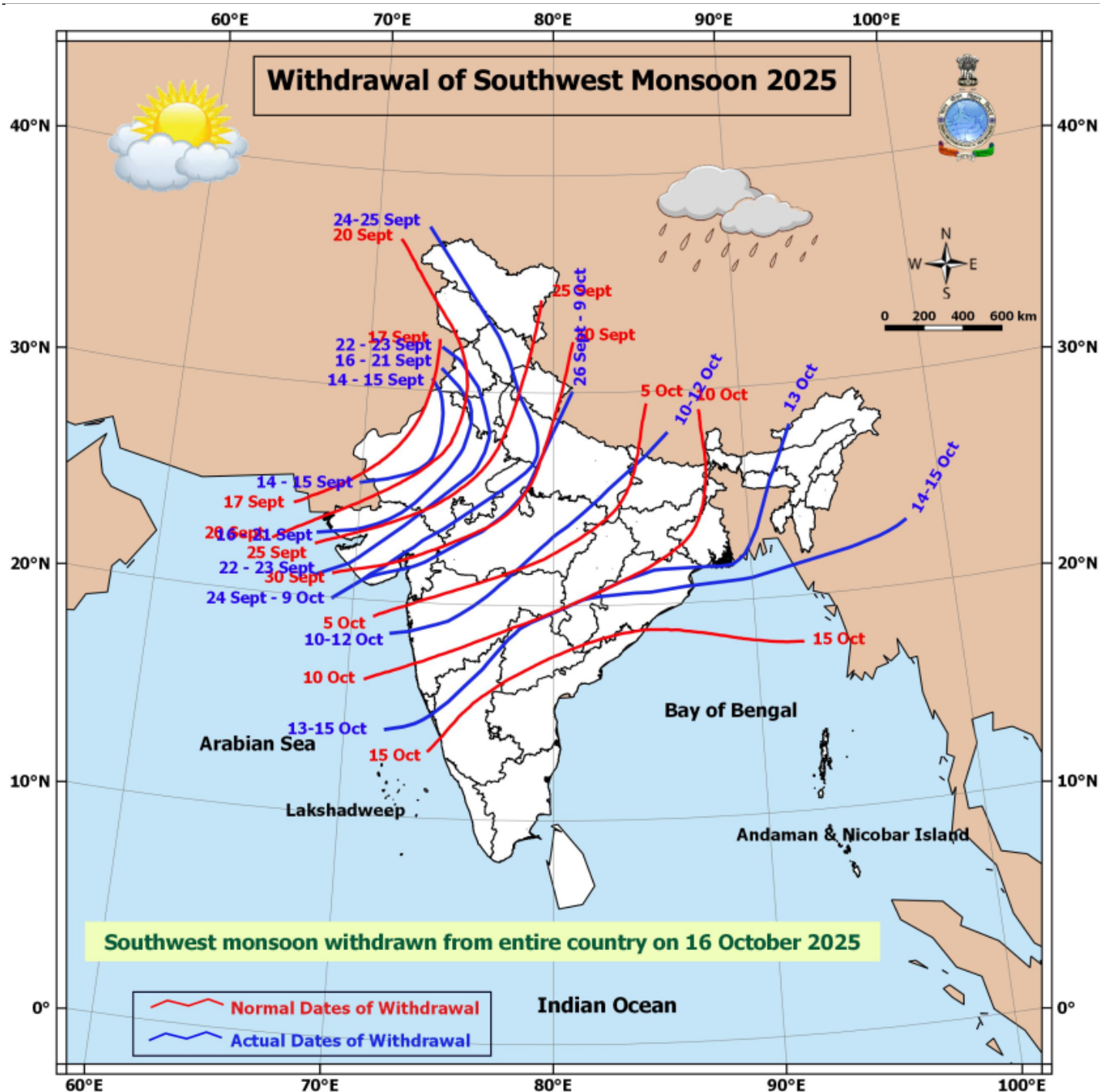
The **upper air cyclonic circulation** over south Bihar & neighbourhood now lies over north Jharkhand and neighbourhood at 3.1 km above mean sea level.

The **upper air cyclonic circulation** over southeast Arabian Sea & adjoining Lakshadweep area persists over the same region extending upto 5.8 km above mean sea level tilting southward with height. Under its influence, a **low pressure area** is likely to form over southeast Arabian Sea & Lakshadweep area off Kerala-Karnataka coasts around 18th October, 2025. Thereafter, it is likely to move west north-westwards and intensify into a depression during subsequent 48 hours.

The **upper air cyclonic circulation** over south Bangladesh & neighbourhood extending upto 1.5 km above mean sea level has become less marked.

Weather Outlook for subsequent 3 days

- A **low pressure area** is likely to form over southeast Bay of Bengal around 24th October, it is likely to move west-northwestwards and intensify further thereafter.

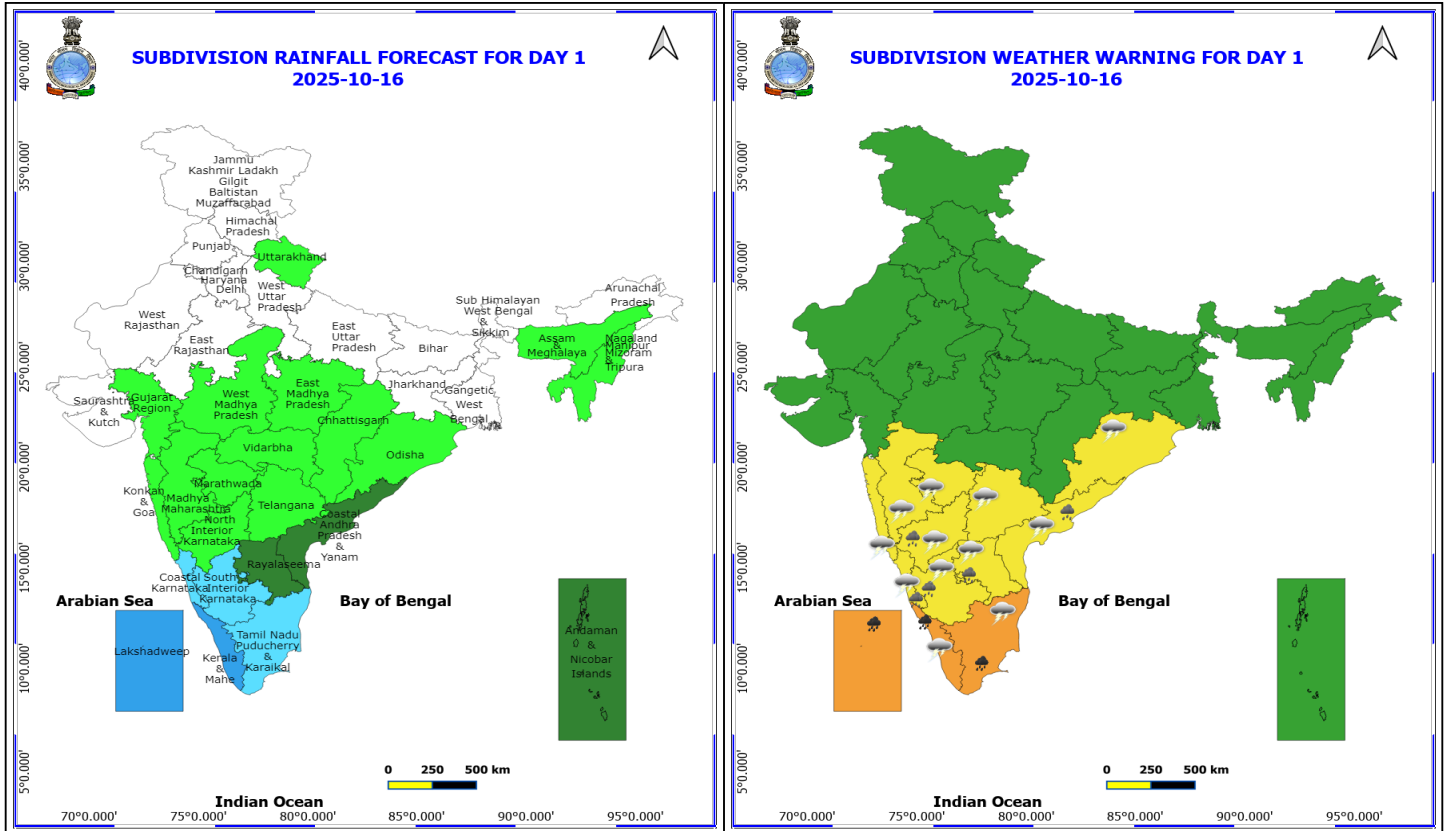


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16 October (Day 1)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh and Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Coastal Karnataka, Kerala & Mahe, Odisha, South Interior Karnataka, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada and North Interior Karnataka.

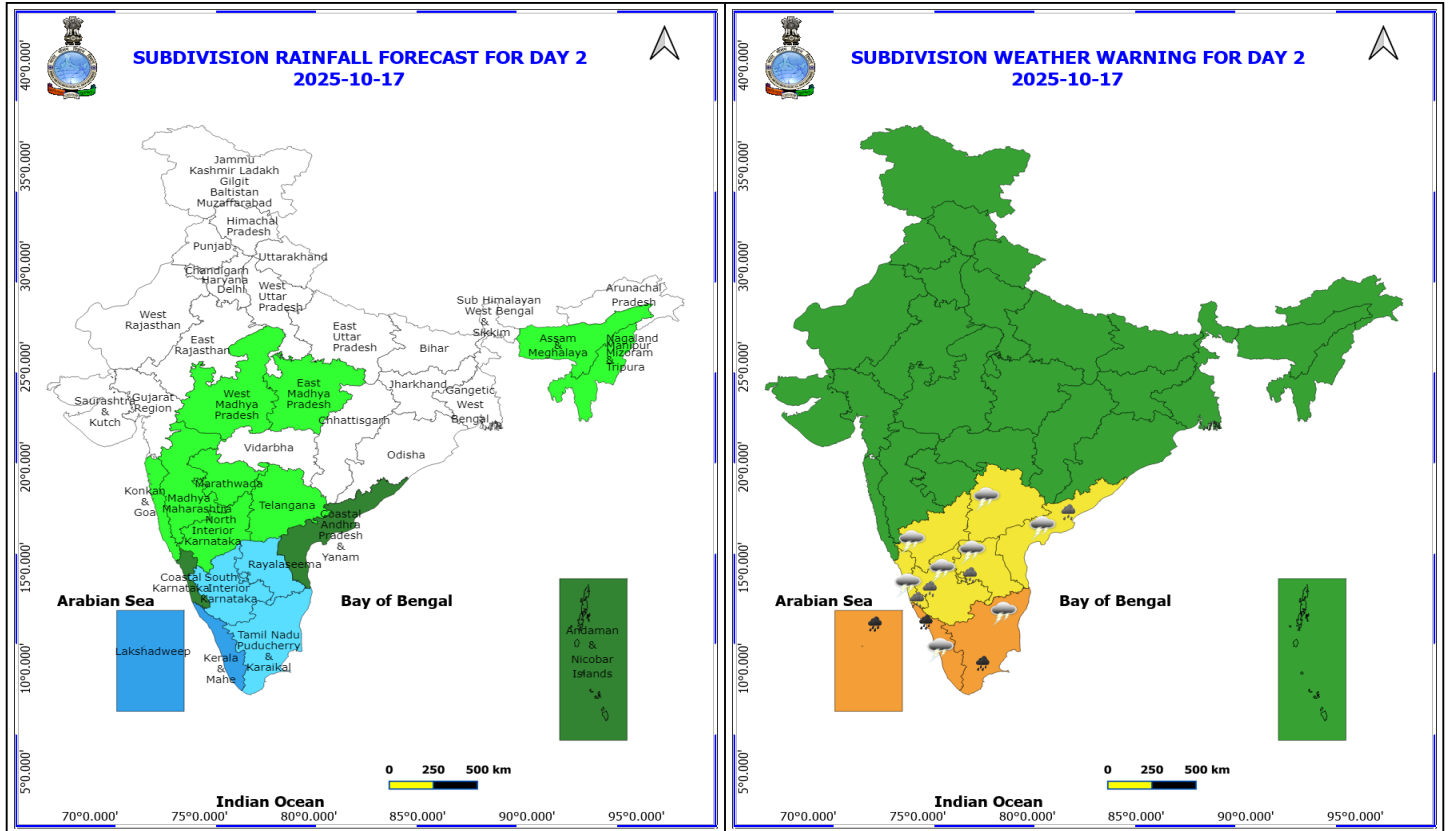
Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail along and off Kerala coast and adjoining sea areas, over Lakshadweep, Comorin areas, Maldives, over Gulf of Mannar, along and off Tamil Nadu & adjoining south Andhra Pradesh coasts.

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17 October (Day 2)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Coastal Karnataka and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh and Karnataka.

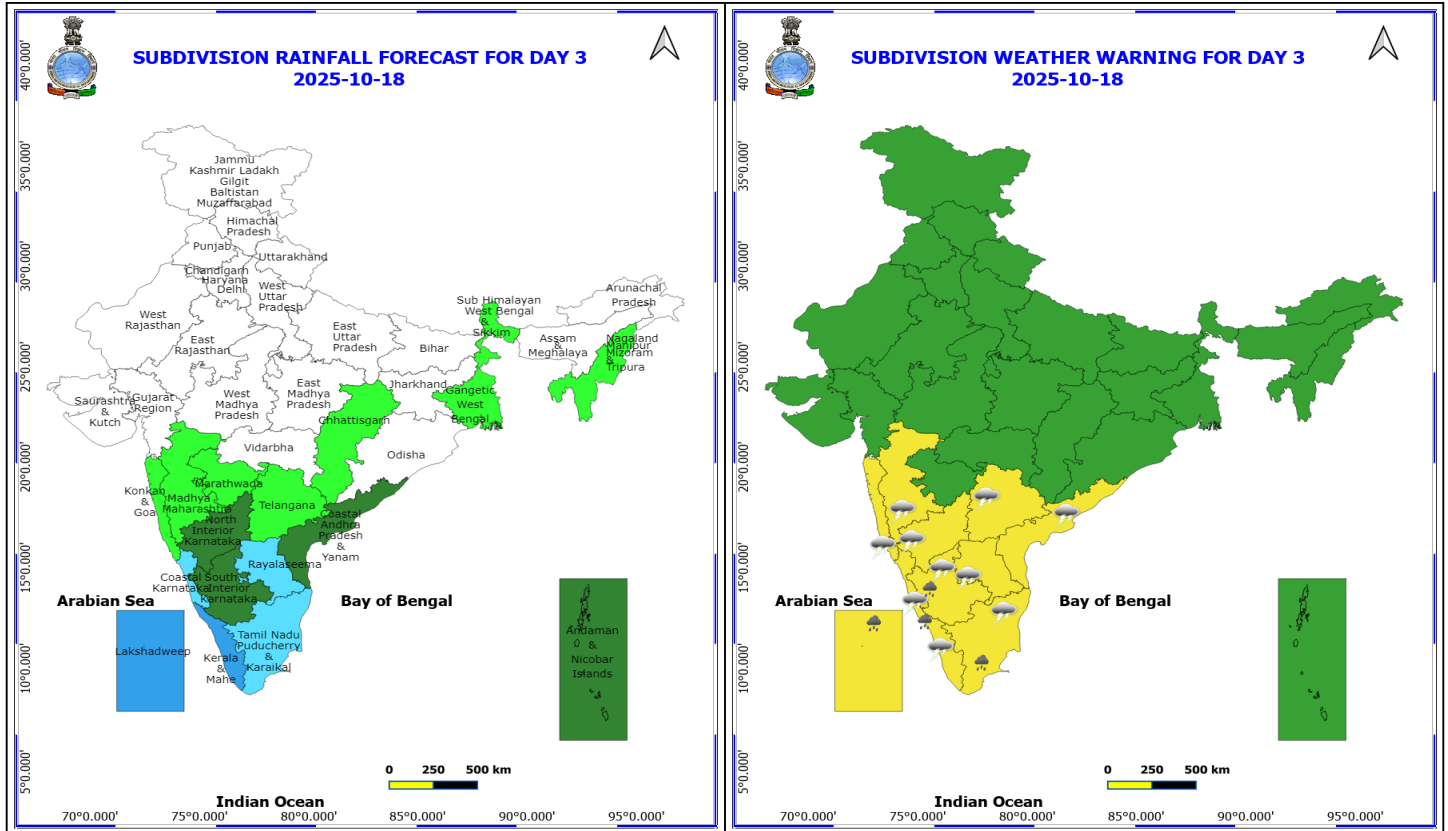
Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail along and off Kerala, Karnataka coasts and adjoining sea areas, over Lakshadweep, Comorin areas, Maldives, many parts of southeast Arabian Sea, over Gulf of Mannar, along & off Tamilnadu & adjoining south Andhra Pradesh coasts.

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18 October (Day 3)

- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe, Lakshadweep, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Karnataka, Konkan & Goa and Madhya Maharashtra.

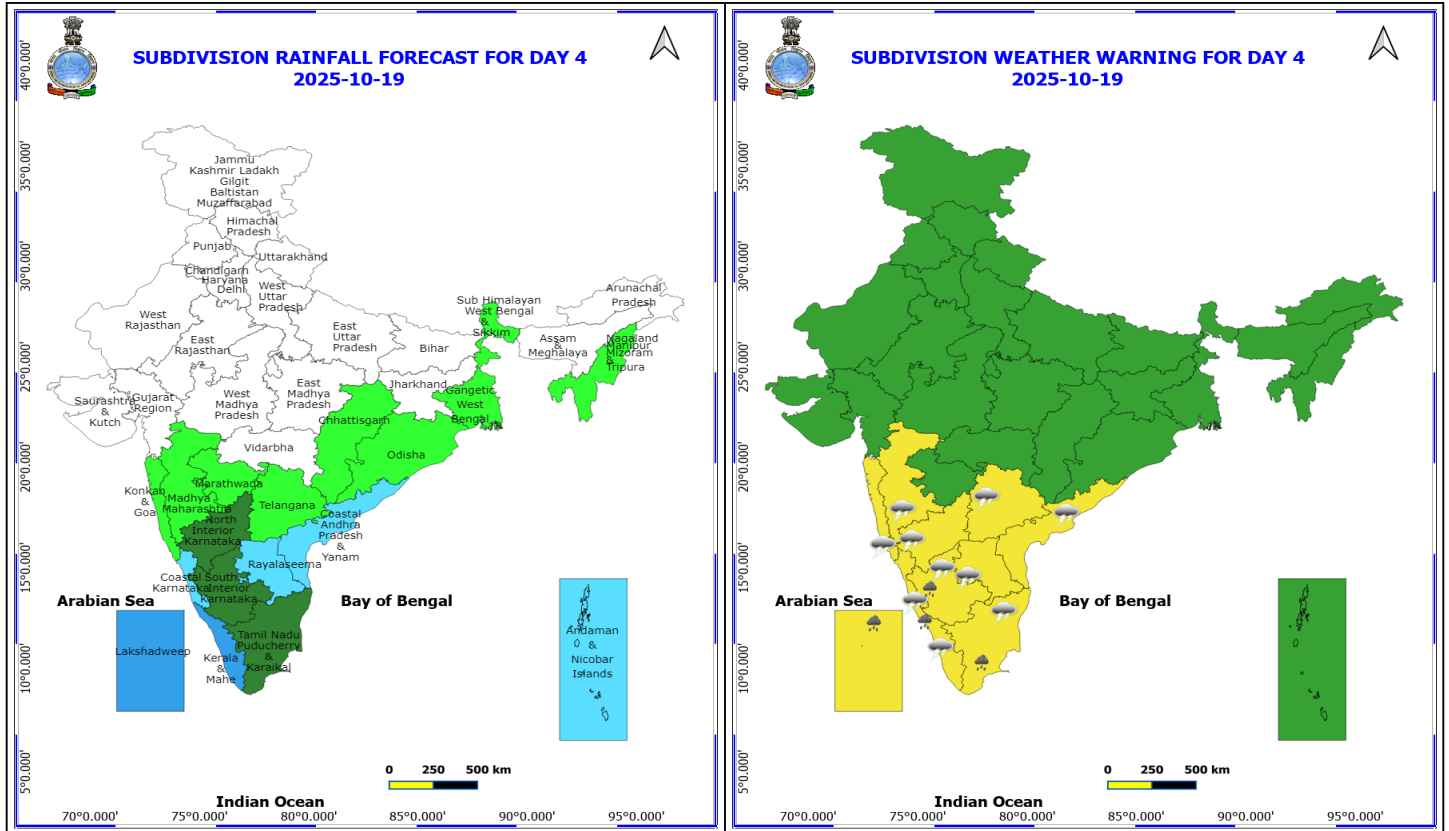
Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail along and off Kerala, Karnataka coasts and adjoining sea areas, over Lakshadweep, Comorin areas, Maldives, many parts of southeast Arabian Sea, over Gulf of Mannar.

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19 October (Day 4)

- ❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe, Lakshadweep, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Karnataka, Konkan & Goa and Madhya Maharashtra.

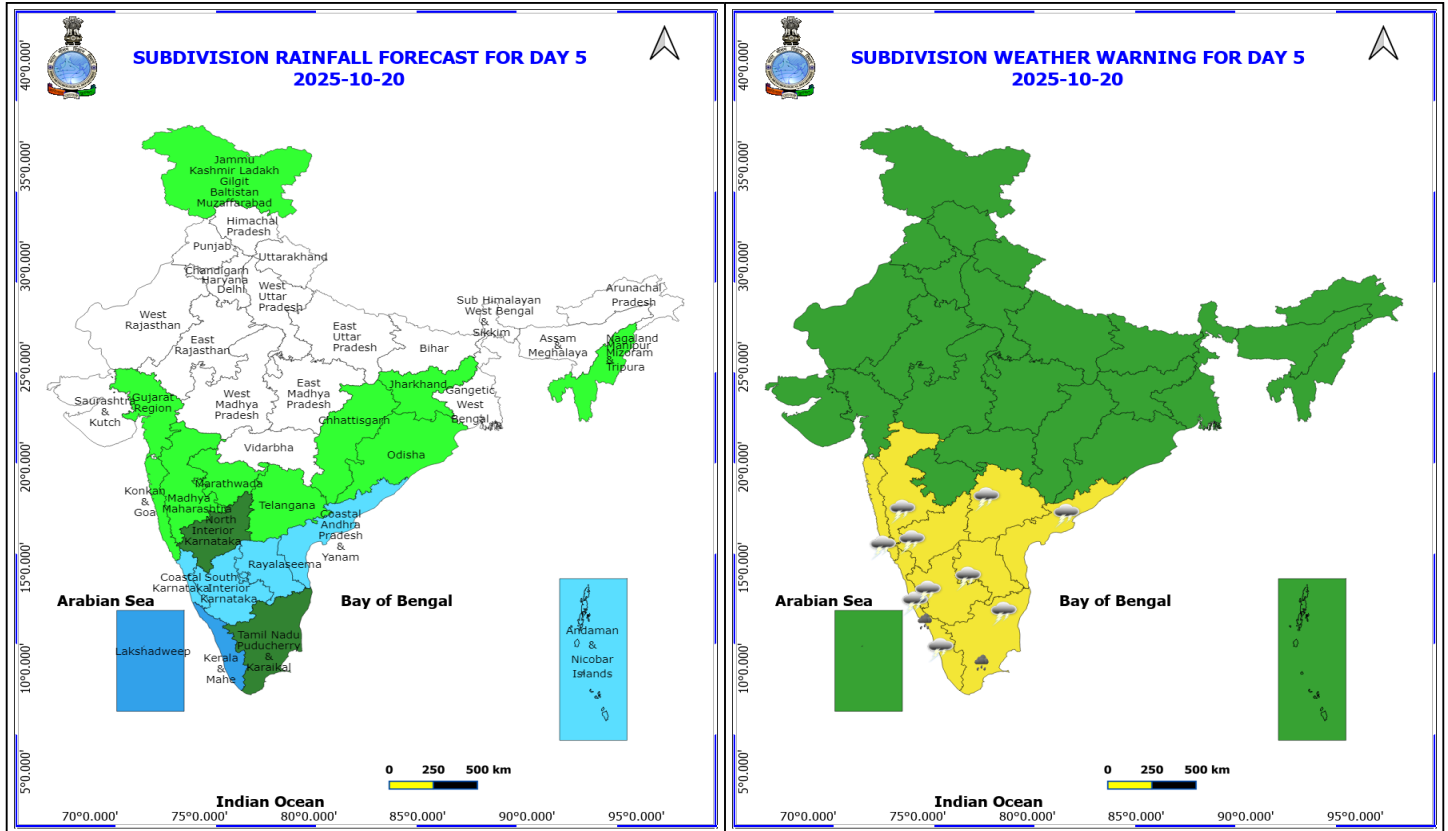
Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail along and off Kerala, Karnataka coasts and adjoining sea areas, over Lakshadweep, Comorin areas, Maldives, most parts of southeast Arabian Sea & adjoining parts of eastcentral Arabian Sea, over Gulf of Mannar.

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20 October (Day 5)

- ❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Karnataka, Konkan & Goa and Madhya Maharashtra.

Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail along and off Kerala, Karnataka coasts and adjoining sea areas, over Lakshadweep, Comorin areas, Maldives, southeast Arabian Sea & adjoining, some parts of southwest, eastcentral Arabian Sea, over Gulf of Mannar, over few southern parts of south Bay of Bengal.

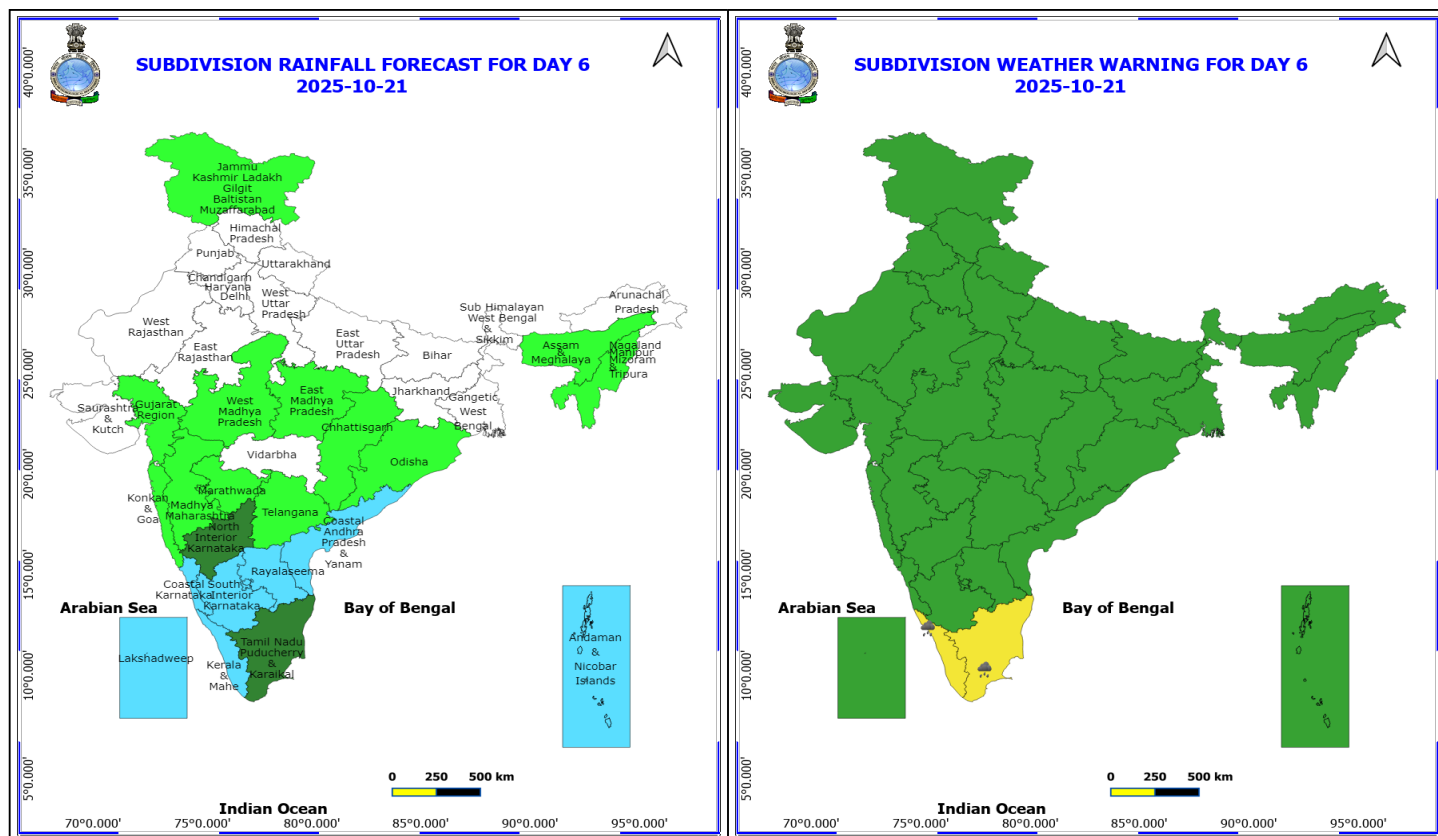
Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over Lakshadweep, Maldives area and adjoining areas of southeast, eastcentral Arabian Sea.

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21 October (Day 6)

❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.

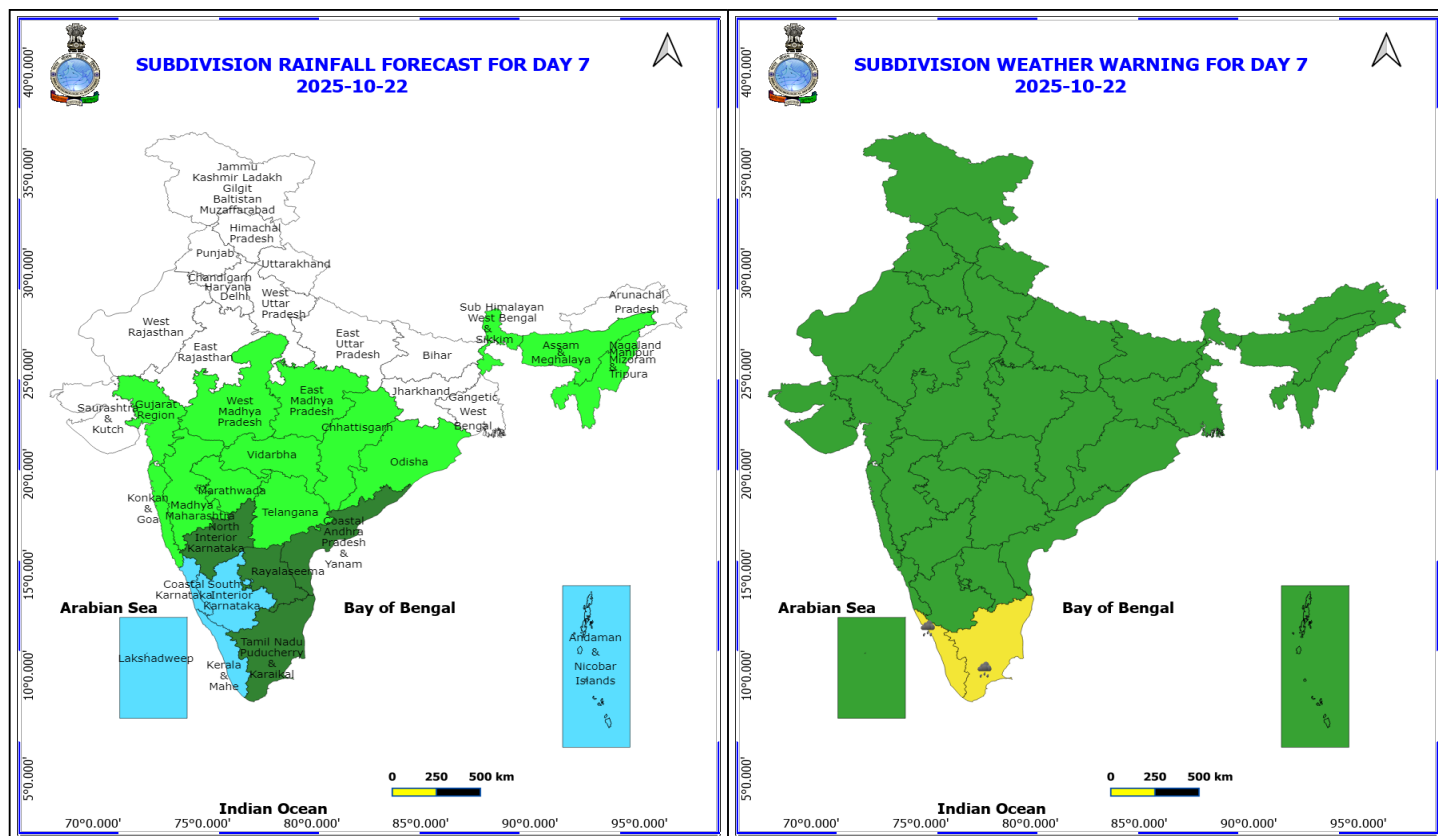
No Fishermen Warning

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22 October (Day 7)

❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.

No Fishermen Warning

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	16- Oct	17- Oct	18- Oct	19- Oct	20- Oct	21- Oct	22- Oct
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	SCT	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	ISOL	ISOL	DRY	DRY	DRY	ISOL	ISOL
4	N. M. M. & T.	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
5	S.H. WEST BENGAL & SIKKIM	DRY	DRY	ISOL	ISOL	DRY	DRY	ISOL
6	GANGETIC WEST BENGAL	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
7	ODISHA	ISOL	DRY	DRY	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	DRY	DRY	DRY	DRY	ISOL	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	ISOL	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	ISOL	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	ISOL	ISOL	DRY	DRY	DRY	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	ISOL	ISOL
21	GUJRAT REGION	ISOL	DRY	DRY	DRY	ISOL	ISOL	ISOL
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	ISOL	DRY	DRY	DRY	DRY	DRY	ISOL
27	CHATTISGARH	ISOL	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH	SCT	SCT	SCT	FWS	FWS	FWS	SCT
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	SCT	FWS	FWS	FWS	FWS	FWS	SCT
31	TAMILNADU & PUDUCHERRY	FWS	FWS	FWS	SCT	SCT	SCT	SCT
32	COSTAL KARNATAKA	FWS	SCT	FWS	FWS	FWS	FWS	FWS
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	FWS	FWS	SCT	SCT	FWS	FWS	FWS
35	KERALA	WS	WS	WS	WS	WS	FWS	FWS
36	LAKSHDWEAP	WS	WS	WS	WS	WS	FWS	FWS

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 2025-10-15

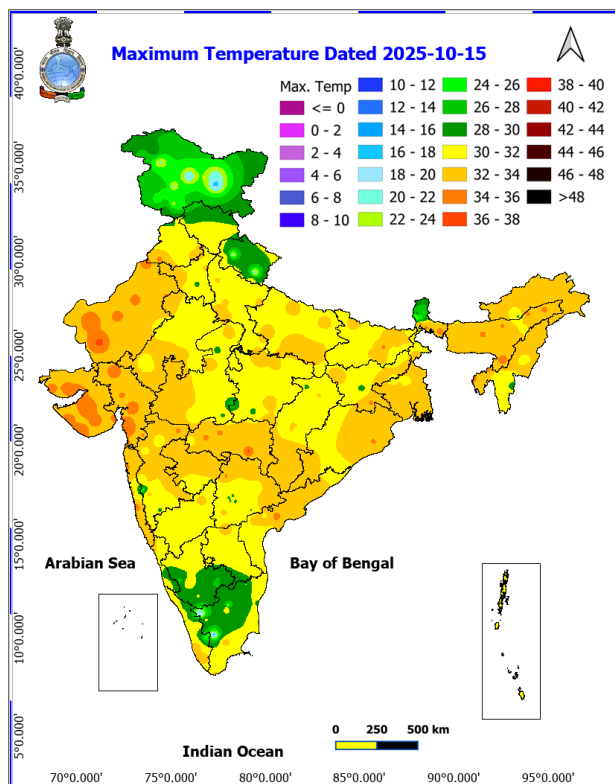


Fig. 2: Departure of Maximum Temp. Dated 2025-10-15

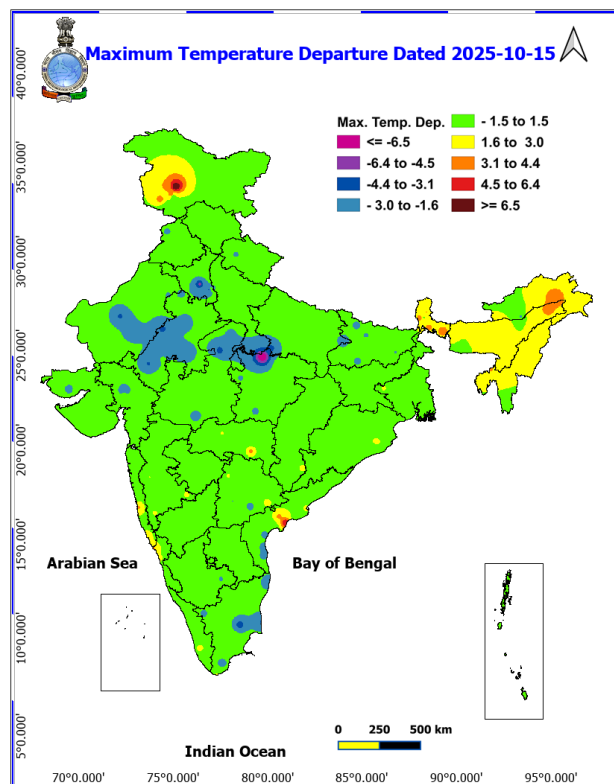


Fig. 3: Minimum Temperatures Dated 2025-10-16

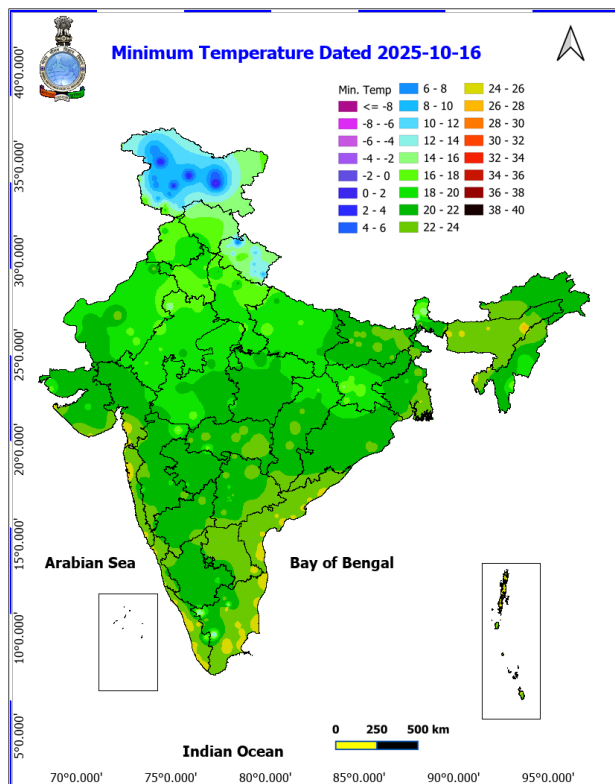
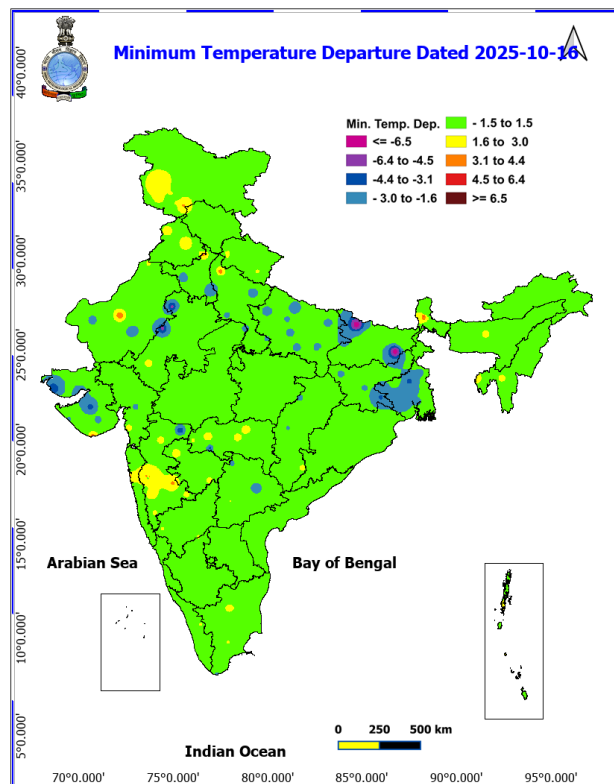
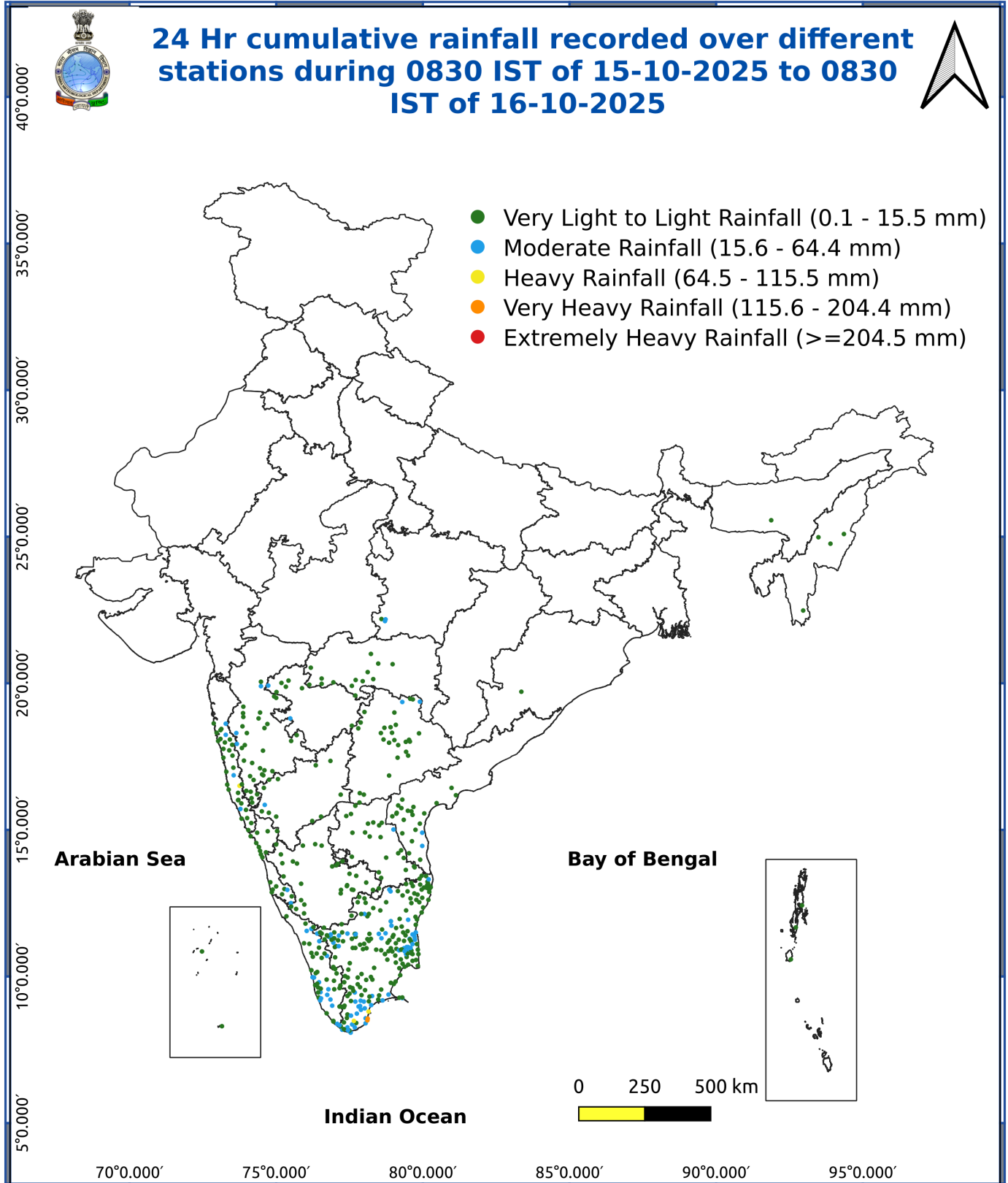


Fig. 4: Departure of Minimum Temp. Dated 2025-10-16





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Impact & Action Suggested due to:

Very heavy rainfall over Tamil Nadu, Kerala & Mahe and Lakshadweep on 16th & 17th October.

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 mainly over Bihar, Jharkhand and West Bengal (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 Rainfall
(Based on the IBF and advisories issued by different AMFUs)

In Tamil Nadu, store the harvested produce of rice and groundnut in safer places. Provide adequate drainage facilities in fields of rice, cotton, turmeric, garlic, ginger and vegetables and plantations of coconut, banana and black pepper to avoid water stagnation.

In Kerala, make provision to drain out excess water from fields of rice and plantations of banana, coconut, arecanut and black pepper.

In Coastal Karnataka, undertake harvesting of arecanut and coconut and keep the harvested produce at safer places. In South Interior Karnataka, keep the harvested produce of groundnut, maize pepper, cardamom, turmeric and coffee to dry, covered and ventilated areas or cover with tarpaulins in the fields. Make necessary arrangements to drain out excess water from fields of rice, maize, finger millet, pigeon pea, soybean, groundnut and vegetables and plantations of banana, black pepper, coconut and arecanut to avoid waterlogging.

In Coastal Andhra Pradesh, provide adequate drainage facilities in fields of rice, maize, pigeon pea, black gram, green gram, groundnut, turmeric, ginger, vegetables and plantations of coconut, arecanut, banana, coffee and black pepper.

In Rayalseema, maintain proper drainage in fields of rice, groundnut, cotton, turmeric and vegetables.

Livestock / Fishery

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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.

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

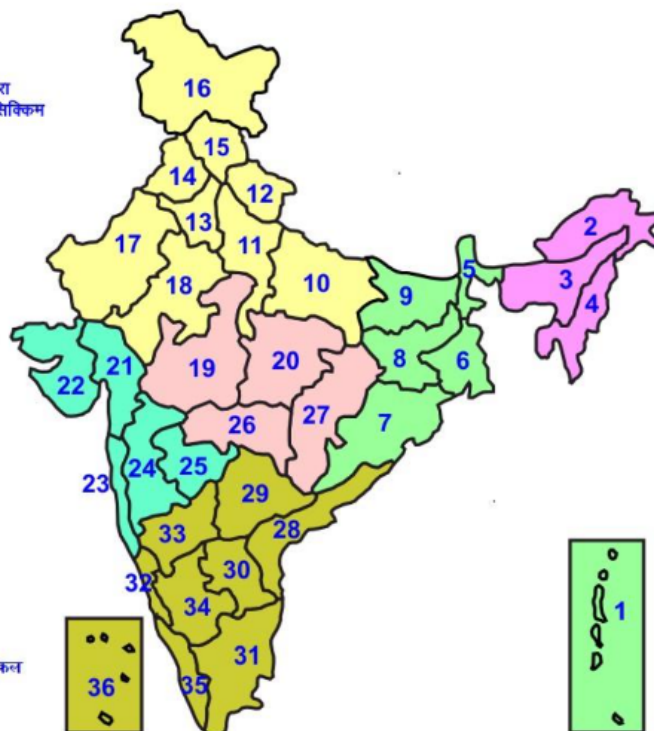
(Based on the IBF and advisories issued by different AMFUs)

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.

Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface 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. 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°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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