



2025-10-12

Time of Issue: 13:07:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings:

South Peninsular India:

Light to moderate rain/thunderstorm at some/ isolated places with isolated **heavy rainfall** likely over Tamil Nadu and Kerala during 12th -18th; South Interior Karnataka, Coastal Andhra Pradesh & Yanam on 13th & 14th October.

Thunderstorm with lightning and gusty wind (speed reaching 30-40 kmph) over Kerala & Mahe, Tamil Nadu, Coastal Andhra Pradesh & Yanam, Rayalaseema & Telangana during 12th -16th; Lakshadweep on 12th & 13th October.

East & Central India:

Light to moderate rain/thunderstorm at some/ isolated places with isolated **heavy rainfall** likely over Odisha on 12th October.

Thunderstorm with lightning over Odisha during 12th-14th; Vidarbha and Chhattisgarh during 14th-16th October

Northeast India:

Thunderstorm with lightning likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 12th October.

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Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Nagaland, Manipur, Mizoram & Tripura; **at many places** over Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal; **at a few places** over Andaman & Nicobar Islands, Arunachal Pradesh, Chhattisgarh, Coastal Karnataka, South Interior Karnataka and Lakshadweep; **at isolated places** over Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, East Uttar Pradesh, Haryana-Chandigarh-Delhi, East Madhya Pradesh, Konkan & Goa, Vidarbha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema 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): **Assam & Meghalaya**: A P Ghat (dist Cachar) 20; Lakhimpur (dist Cachar) 11; Dhemaji (dist Dhemaji) 10; **Tamil Nadu, Puducherry & Karaikal**: Avinasi (dist Tiruppur) 9; Mettur (dist Salem), Anaippalayam (dist Karur) 8 Each; Rasipuram (dist Namakkal), Ariyalur (dist Ariyalur), Tirumayam (dist Pudukkottai), Thiruchuzhi (dist Virudhunagar), Panruti (dist Cuddalore), Kurinjipadi (dist Cuddalore), Annavasal (dist Pudukkottai) 7 Each; **Nagaland, Manipur, Mizoram & Tripura**: Chottabekra (dist Imphal West) 9; **Odisha**: Deogaon (dist Jharsuguda) 7.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy rain** at isolated places over Assam & Meghalaya. **Heavy rain** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Odisha and Tamil Nadu, Puducherry & Karaikal.

❖ **Minimum Temperature Departures (as on 12-10-2025)**: **markedly above normal(> 5.1°C)** at isolated places over Sub Himalayan West Bengal & Sikkim and Bihar. **appreciably above normal(3.1°C to 5.0°C)** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, West Uttar Pradesh and Vidarbha. **above normal(1.6°C to 3.0°C)** at isolated places over Konkan & Goa, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over Jharkhand, Uttarakhand, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Madhya Maharashtra, Chhattisgarh, Rayalaseema, North Interior Karnataka and Lakshadweep; at most places over Andaman & Nicobar Islands, Gangetic West Bengal, Punjab, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and South Interior Karnataka; at few places over Arunachal Pradesh, East Uttar Pradesh, Haryana-Chandigarh-Delhi, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh and Telangana; at isolated places over East Rajasthan, Gujarat Region and Saurashtra & Kutch. **The lowest minimum temperature** of 14.0°C is reported at INDORE (MADHYA PRADESH) over the Plains of India.

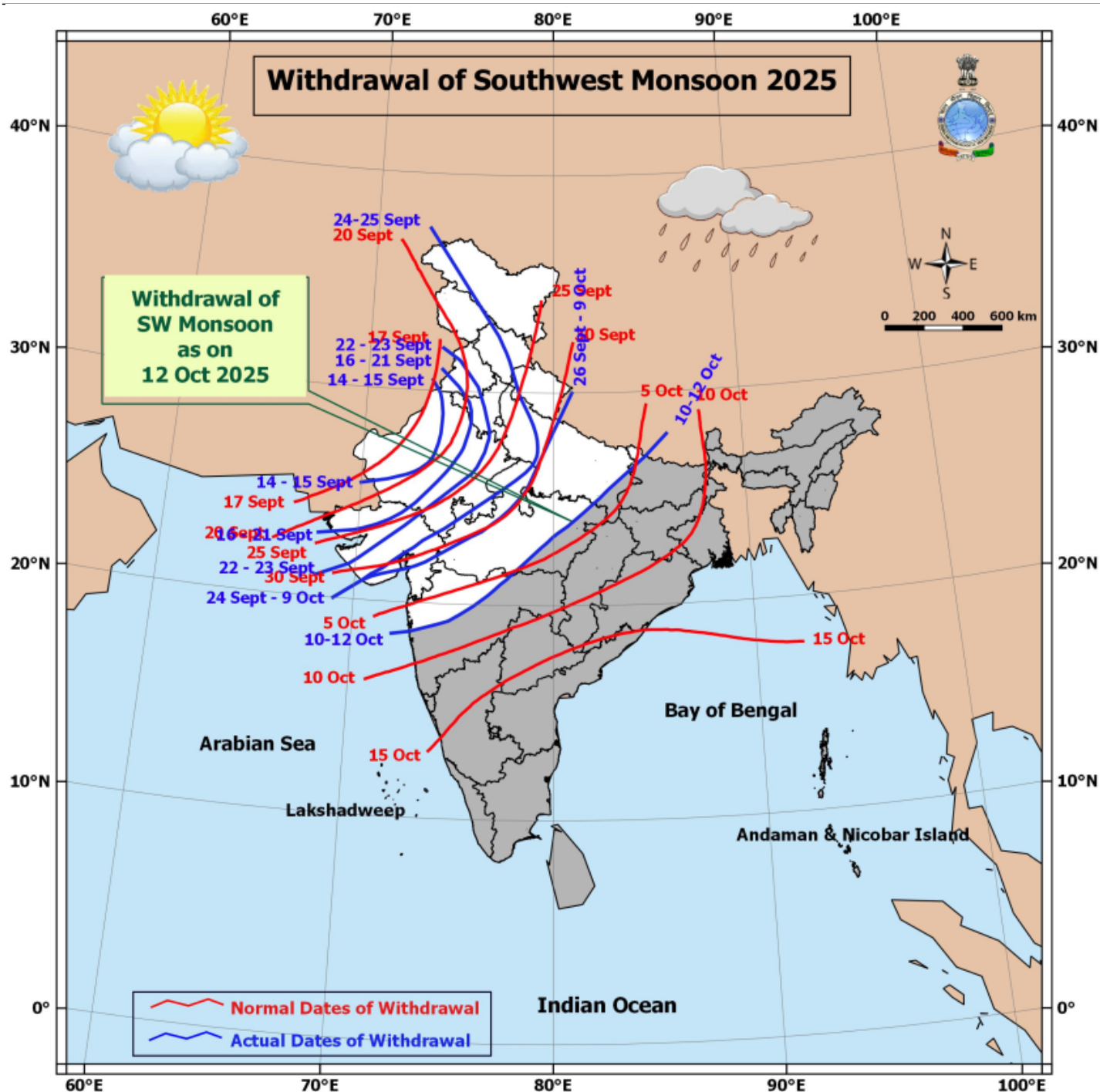
❖ **Maximum Temperature Departures (as on 11-10-2025)**: **appreciably above normal(3.1°C to 5.0°C)** at isolated places over Kerala & Mahe. **above normal(1.6°C to 3.0°C)** at few places over Sub Himalayan West Bengal & Sikkim; at isolated places over Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa, Madhya Maharashtra, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. **near normal(-1.5°C to 1.5°C)** at many places over Assam & Meghalaya, Gangetic West Bengal, Bihar, South Interior Karnataka and Lakshadweep; at most places over Marathwada, Vidarbha, Coastal Karnataka and North Interior Karnataka; at few places over Andaman & Nicobar Islands, Jharkhand, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Gujarat Region, Saurashtra & Kutch, Chhattisgarh and Coastal Andhra Pradesh & Yanam; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Odisha and Punjab. **The highest maximum temperature** of 36.5°C is reported at MADURAI (A) (TAMIL NADU).

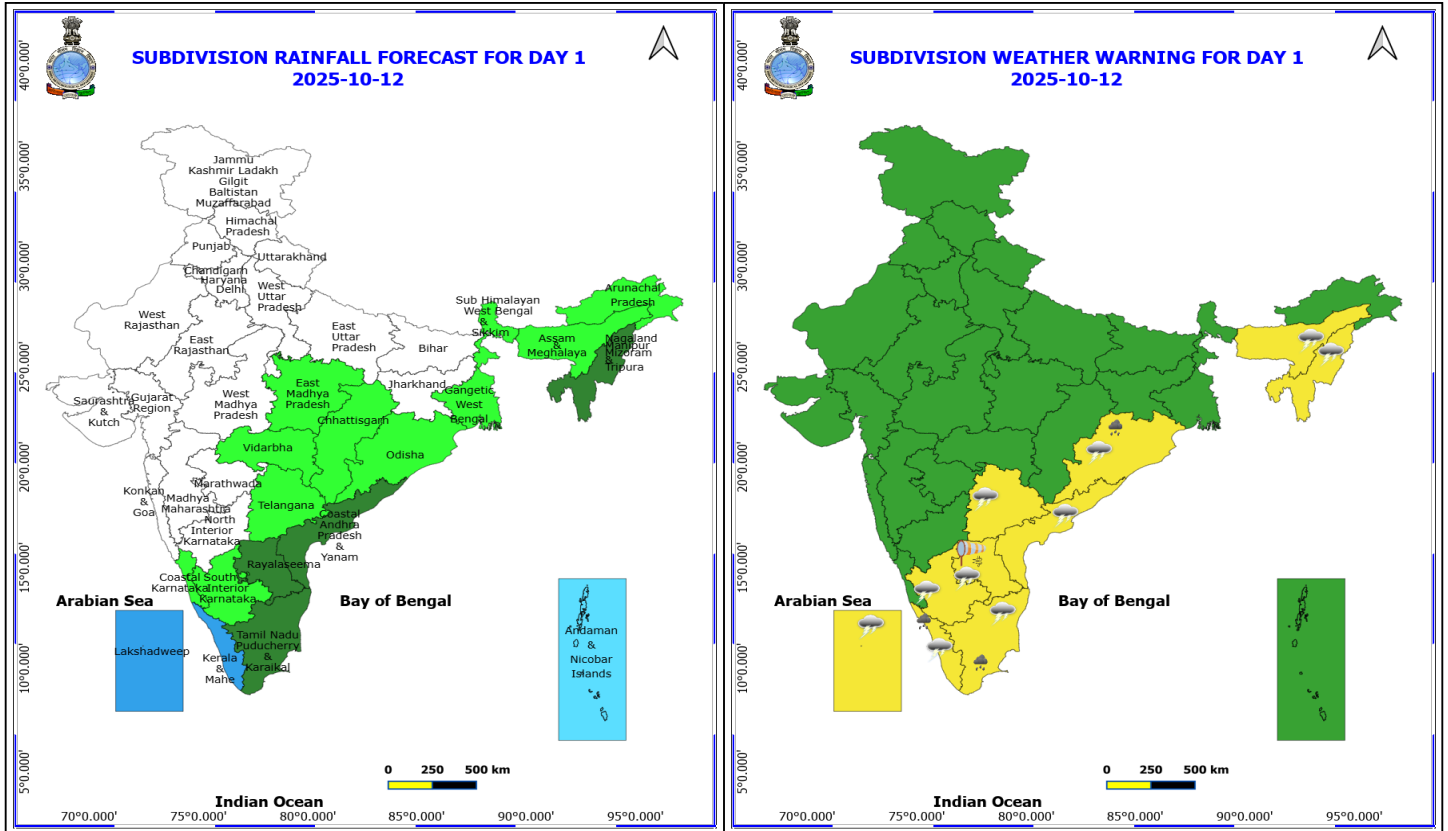
Meteorological Analysis (Based on 0830 hours IST)

- The **line of withdrawal of southwest monsoon** continues to pass through 28°N/86°E, Raxaul, Varanasi, Jabalpur, Akola, Ahilyanagar, Alibag and 18.5°N/ 72°E.
- Conditions are favourable for further withdrawal of southwest monsoon from remaining parts of Maharashtra, Madhya Pradesh, Uttar Pradesh and Bihar; entire Jharkhand & Chhattisgarh and some parts of West Bengal, Sikkim, Odisha & Telangana during next 24 hours and from north east India during subsequent 2-3 days.
- An **upper air cyclonic circulation** lay over northwest Uttar Pradesh & neighbourhood between 3.1 & 4.5 km above mean sea level.
- The **upper air cyclonic circulation** over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over east Bangladesh & adjoining Tripura at 1.5 km above mean sea level has merged with the above **cyclonic circulation** over northeast Assam.
- An **upper air cyclonic circulation** lay over southwest Bay of Bengal and adjoining south Tamil Nadu coast and extends upto 5.8 km above mean sea level.
- The **upper air cyclonic circulation** over southwest Bay of Bengal off north Tamil Nadu coast upto 3.1 km above mean sea level has merged with the above cyclonic circulation over southwest Bay of Bengal and adjoining south Tamil Nadu coast.
- The **low pressure area** (Remnant of Cyclonic Storm "Shakhti" [Pronunciation: Shakhti]) over westcentral Arabian Sea has become less marked, however the associated **cyclonic circulation** extending upto 1.5 km above mean sea level over the same region.
- The **Western Disturbance** as a cyclonic circulation over northwest Uttar Pradesh & neighbourhood between 3.1 & 4.5 km above mean sea level has become less marked.

Weather Outlook for subsequent 3 days

- Isolated to scattered rainfall activity likely over South peninsular India.





12 October (Day 1)

- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe, Odisha and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Kerala & Mahe, Lakshadweep, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram and Tripura, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Strong Surface Winds** very likely at isolated places over Rayalaseema.

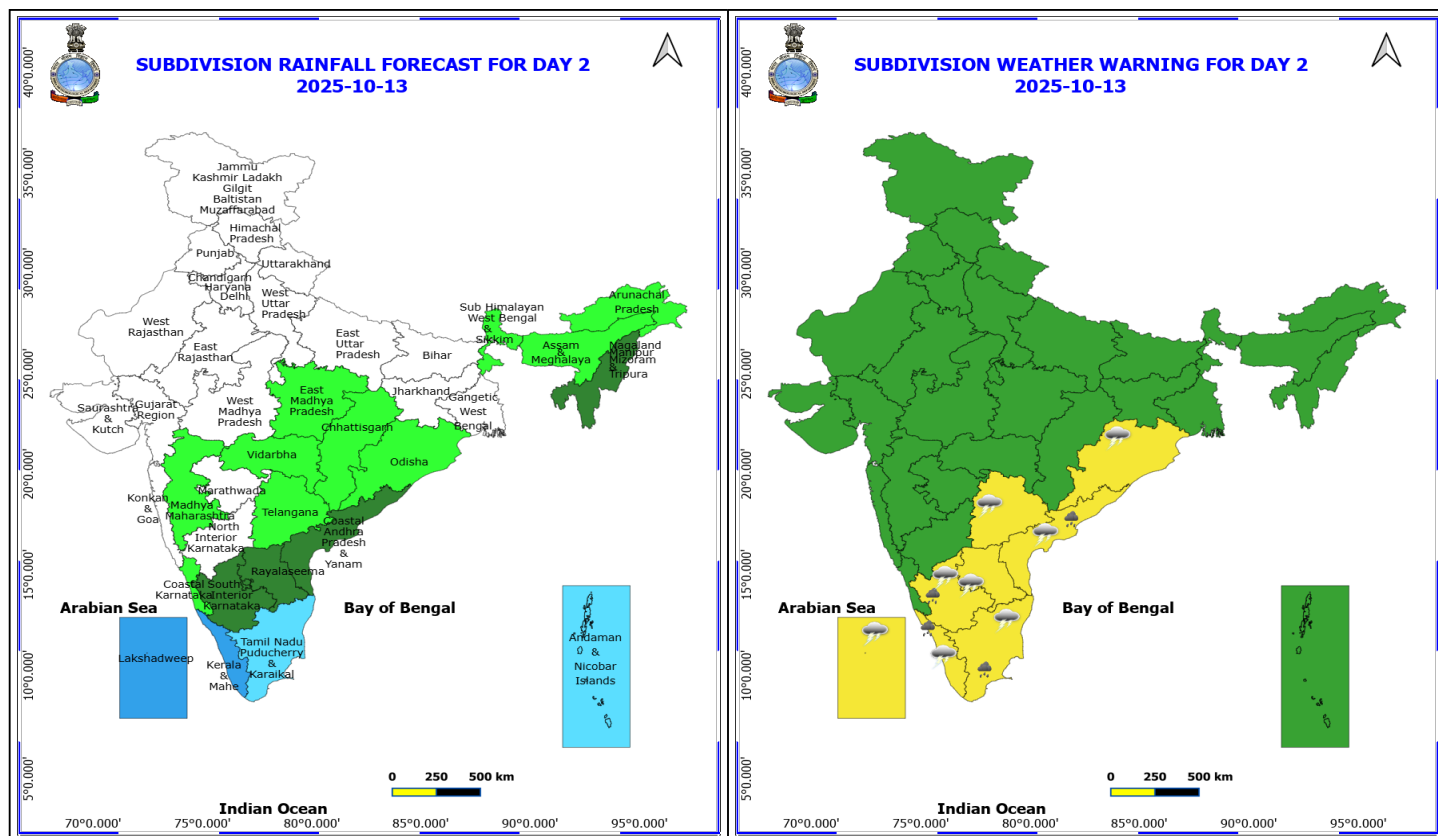
No Warning

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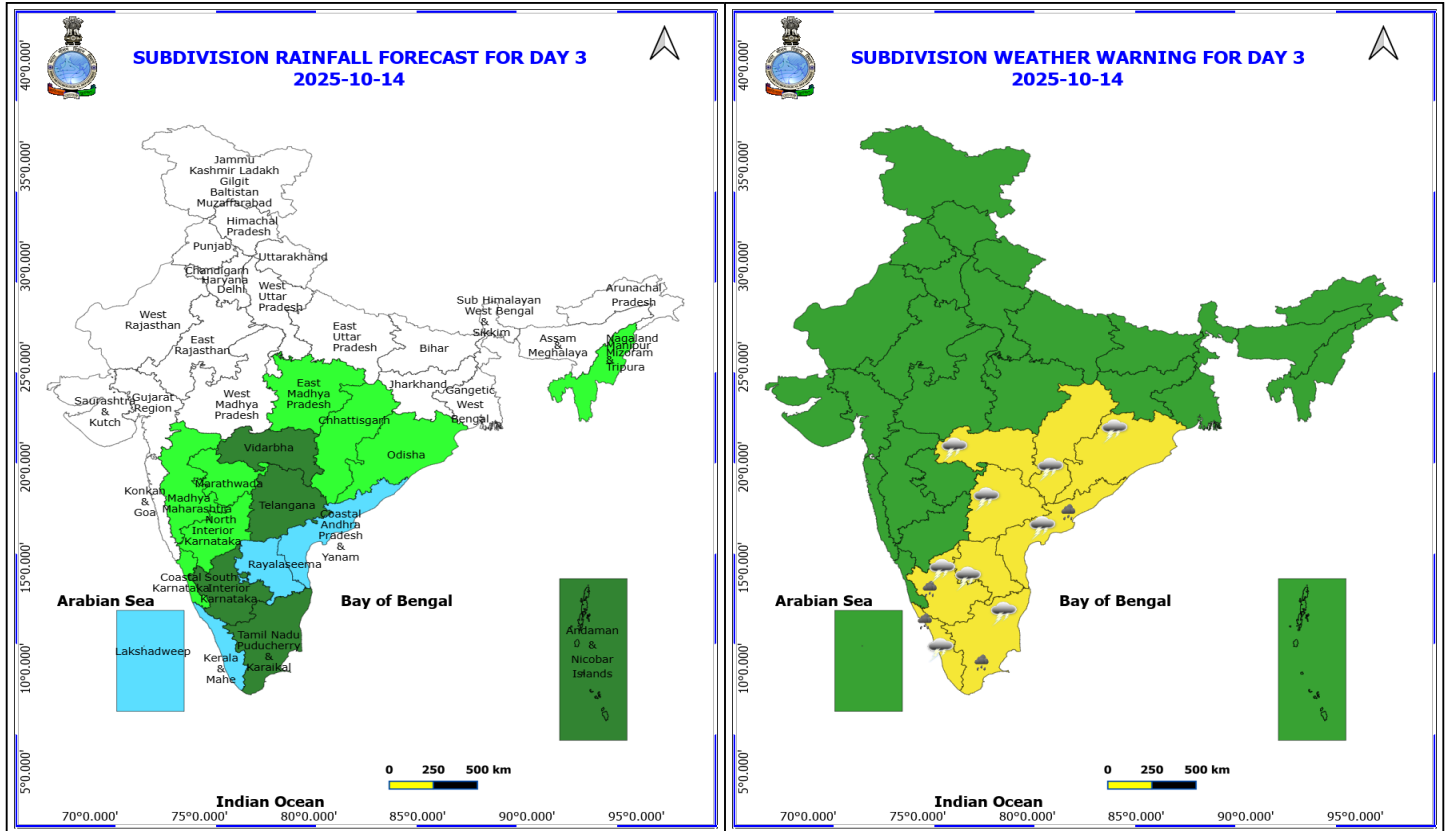
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13 October (Day 2)

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

No Fishermen Warning



14 October (Day 3)

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

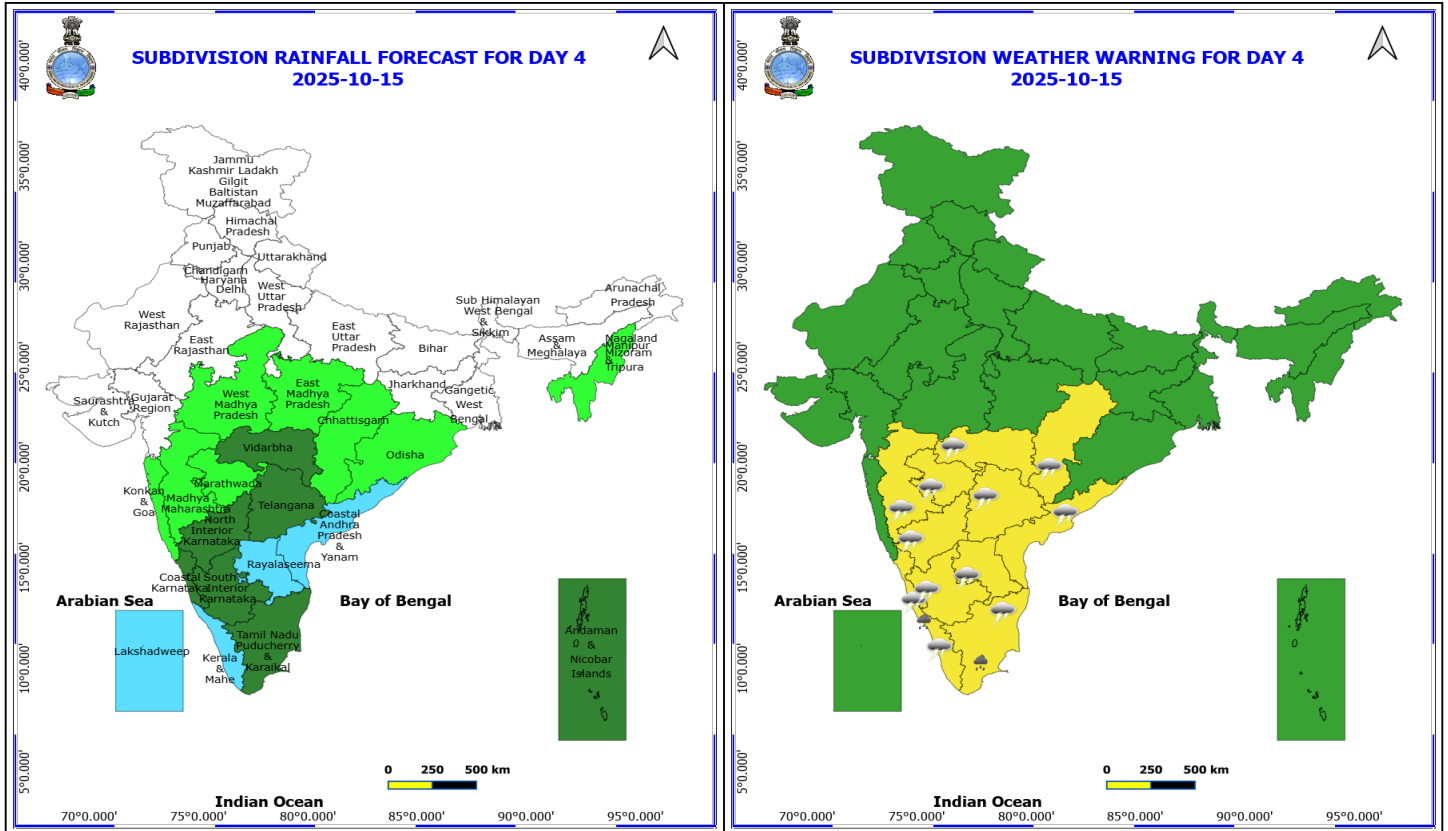
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15 October (Day 4)

- ❖ **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 and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Chhattisgarh, Karnataka, Maharashtra and Tamil Nadu Puducherry & Karaikal.

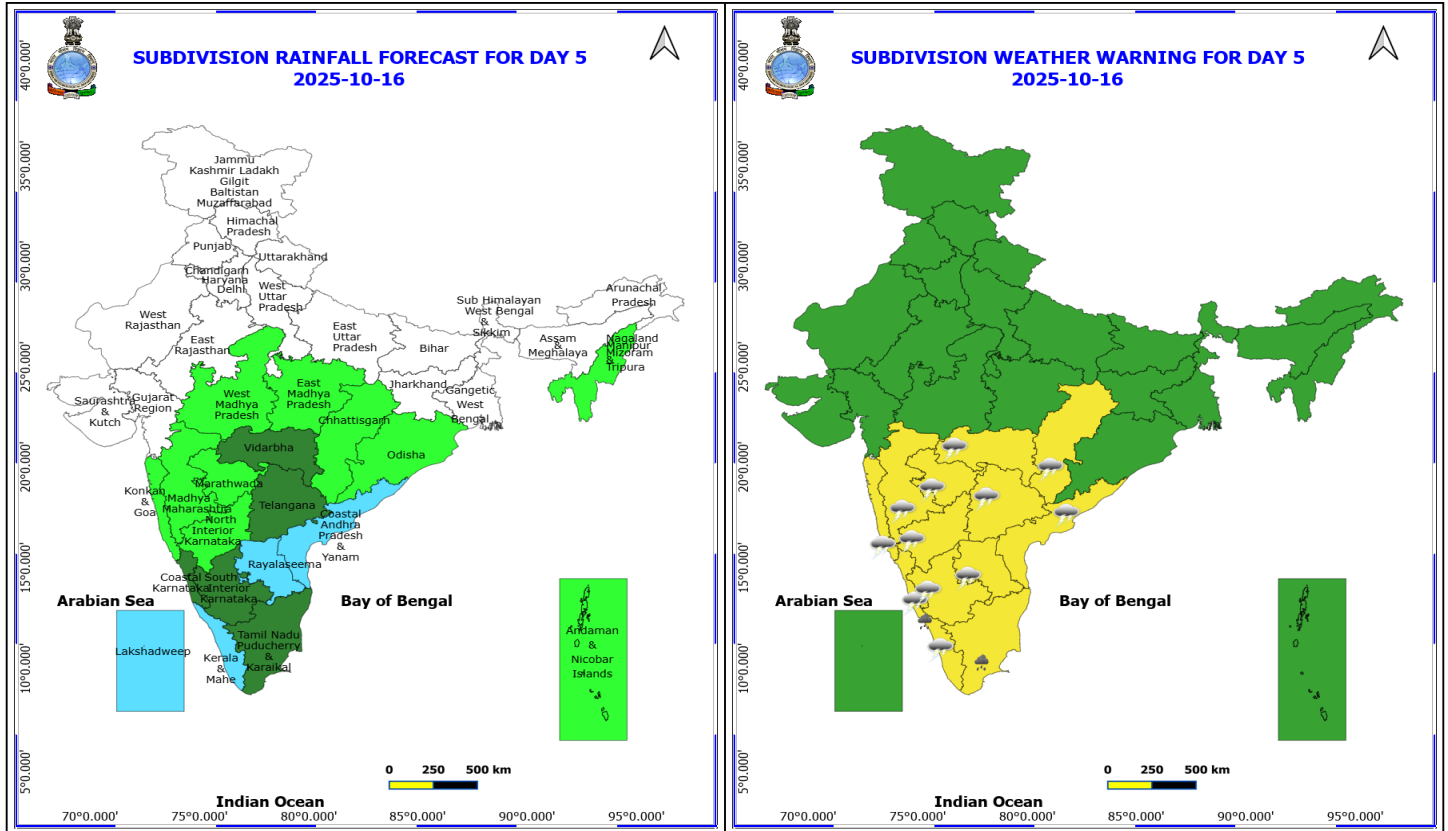
No Fishermen Warning

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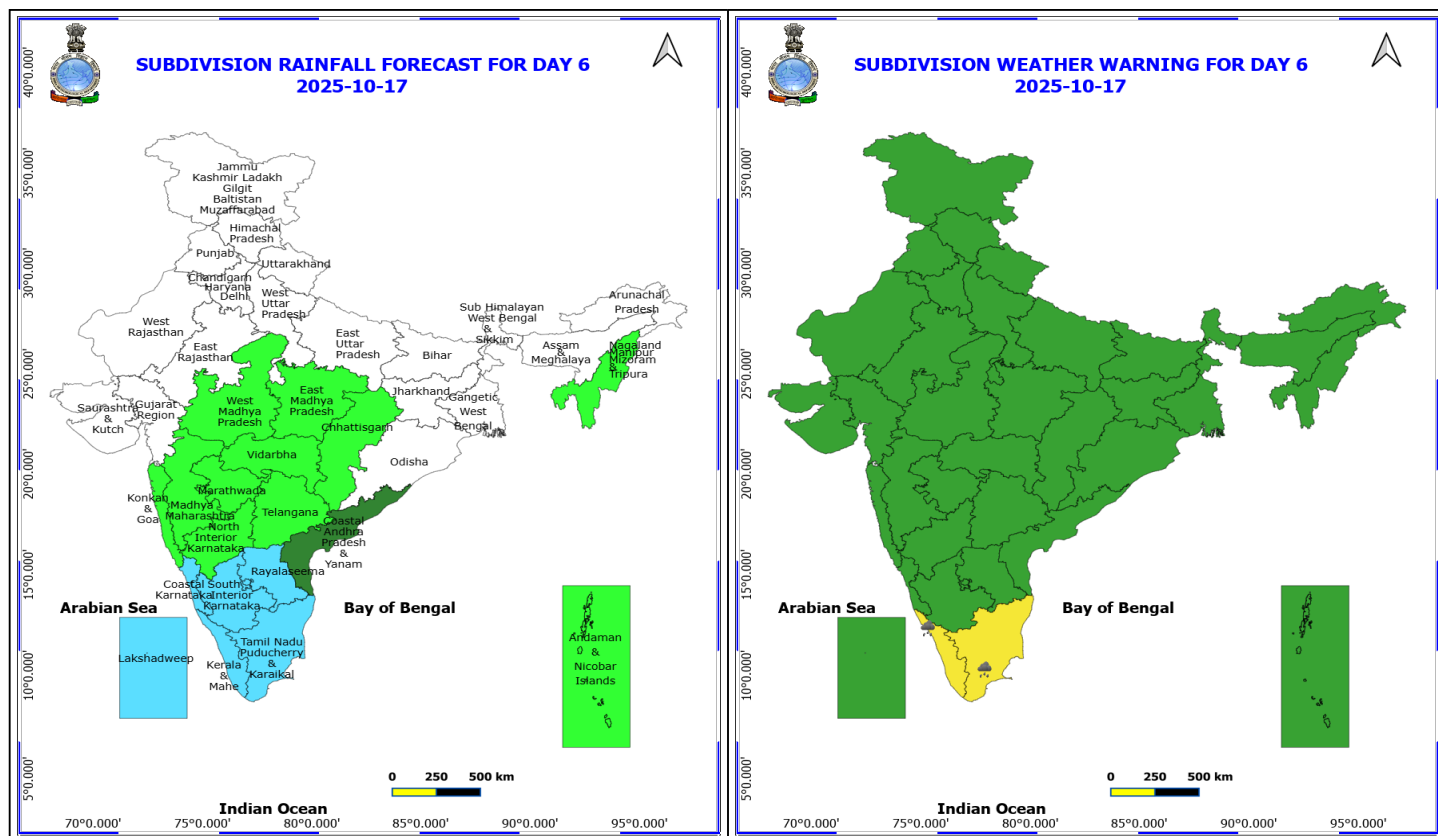
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16 October (Day 5)

- ❖ **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 and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Chhattisgarh, Karnataka, Konkan & Goa and Maharashtra.

No Fishermen Warning



17 October (Day 6)

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

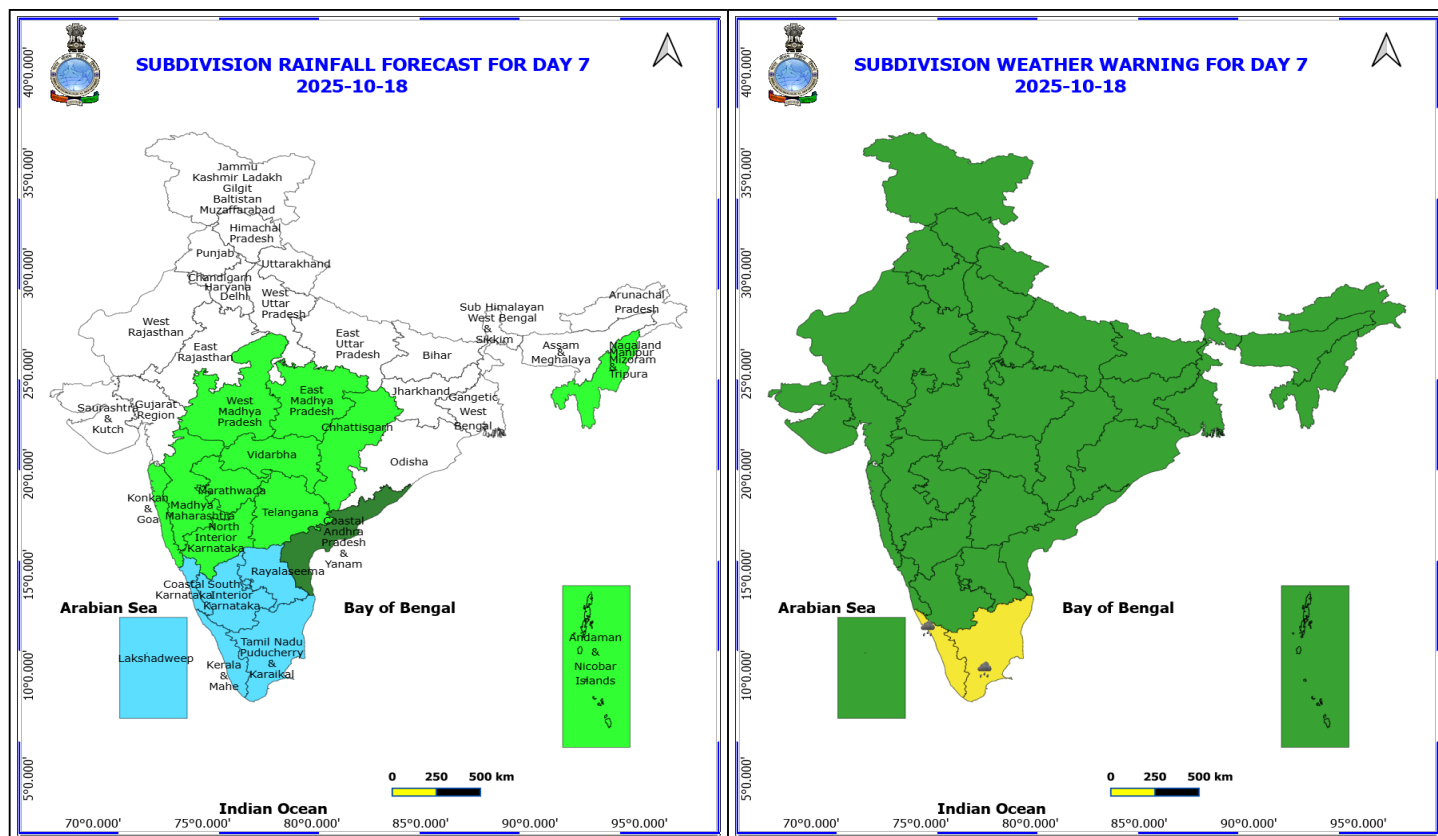
No Fishermen Warning

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18 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	12- Oct	13- Oct	14- Oct	15- Oct	16- Oct	17- Oct	18- Oct
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	SCT	SCT	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
4	N. M. M. & T.	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
5	S.H. WEST BENGAL & SIKKIM	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL	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	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	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	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHWADA	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	ISOL	ISOL	SCT	SCT	SCT	ISOL	ISOL
27	CHATTISGARH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH	SCT	SCT	FWS	FWS	FWS	SCT	SCT
29	TELANGANA	ISOL	ISOL	SCT	SCT	SCT	ISOL	ISOL
30	RAYALASEEMA	SCT	SCT	FWS	FWS	FWS	FWS	FWS
31	TAMILNADU & PUDUCHERRY	SCT	FWS	SCT	SCT	SCT	FWS	FWS
32	COSTAL KARNATAKA	ISOL	ISOL	ISOL	SCT	SCT	FWS	FWS
33	NORTH INTERIOR KARNATAKA	DRY	DRY	ISOL	SCT	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	SCT	SCT	SCT	SCT	FWS	FWS
35	KERALA	WS	WS	FWS	FWS	FWS	FWS	FWS
36	LAKSHDWEAP	WS	WS	FWS	FWS	FWS	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 2025-10-11

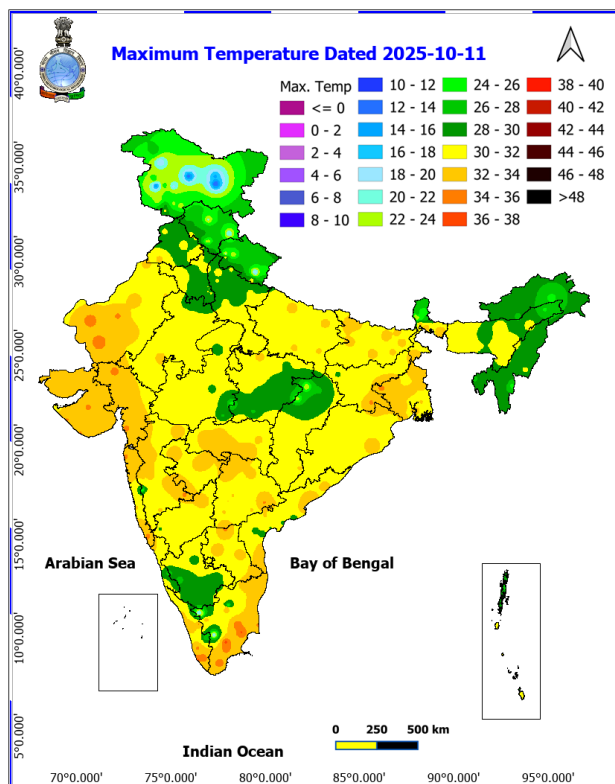


Fig. 2: Departure of Maximum Temp. Dated 2025-10-11

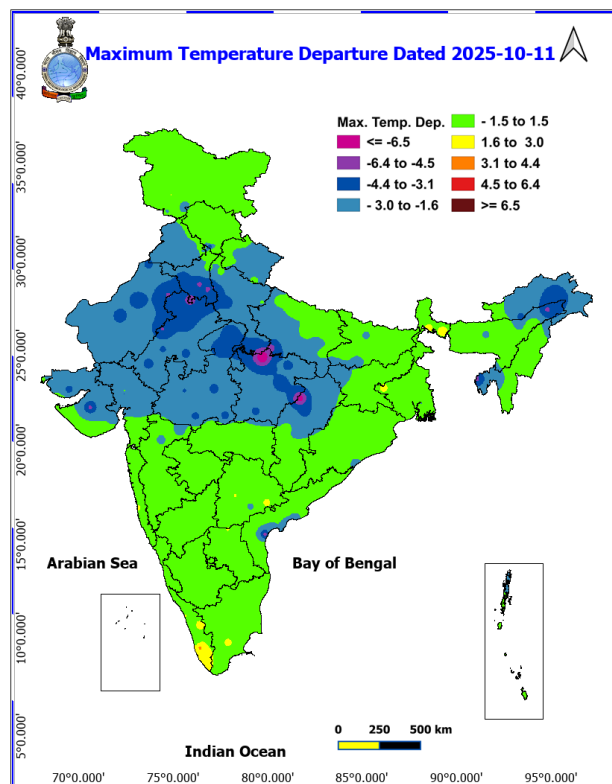


Fig. 3: Minimum Temperatures Dated 2025-10-12

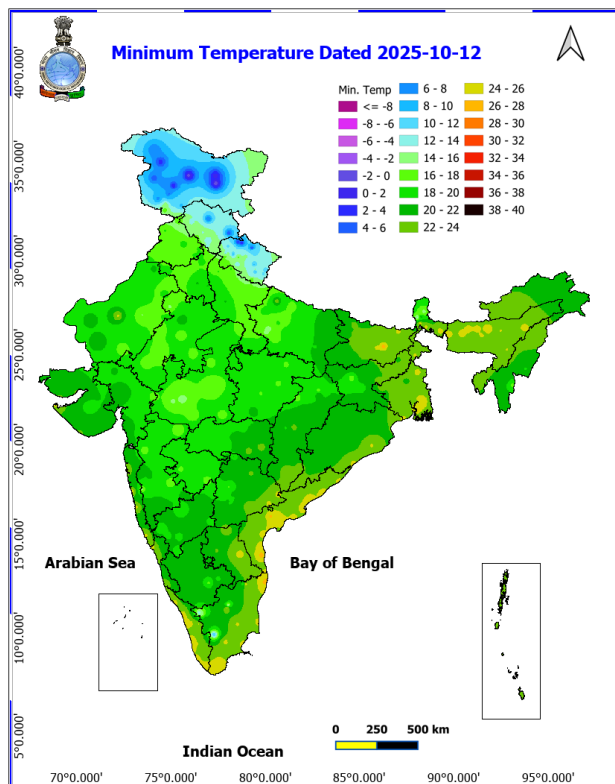
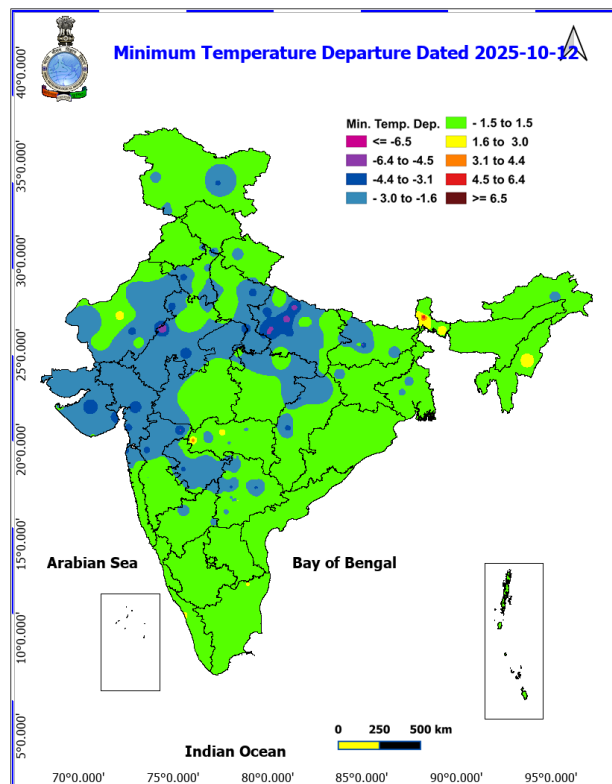
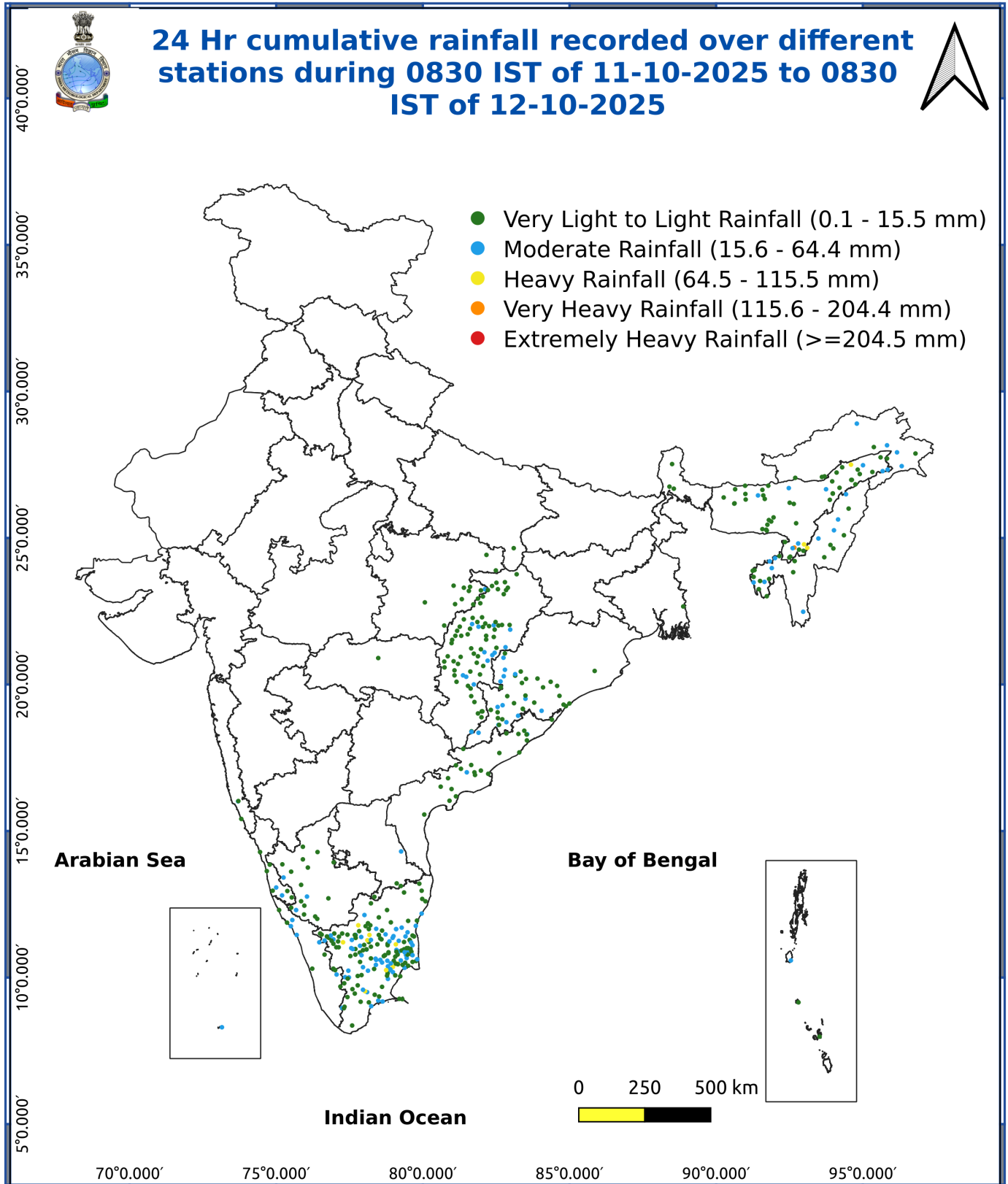


Fig. 4: Departure of Minimum Temp. Dated 2025-10-12





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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 **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 **Odisha**, ensure proper drainage in fields of rice, maize, green gram, black gram, groundnut, cotton and vegetables to prevent waterlogging.

In **Assam**, drain out excess water from fields of *Sali* rice, black gram, green gram and vegetables.

Livestock / 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.

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

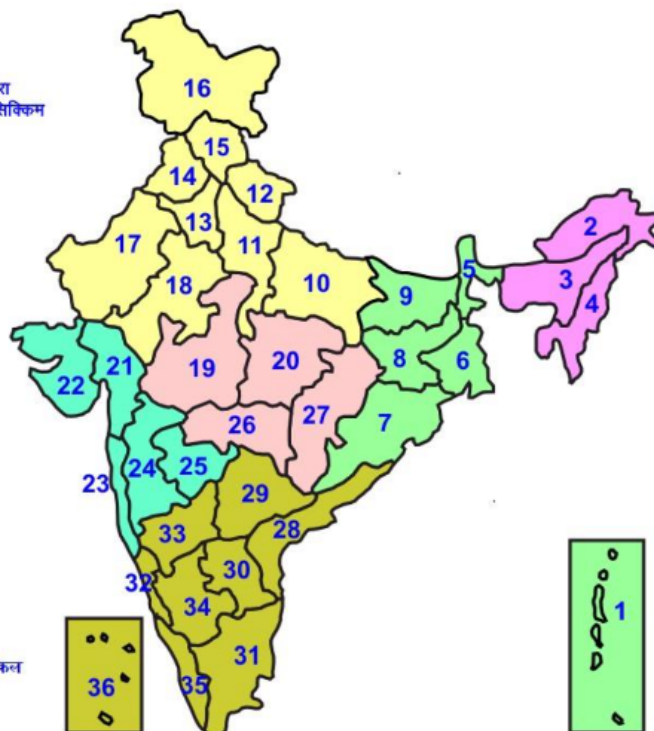
(Based on the IBF and advisories issued by different AMFUs)

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

 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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