

2025-10-09

Time of Issue: 13:13:00 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 & Mahe during 09th -14th; Coastal Karnataka 09th & 10th; South Interior Karnataka during 09th – 13th; Coastal Andhra Pradesh & Yanam during 09th – 12th and Rayalaseema during 09th -11th October with very heavy rainfall over Tamil Nadu and South Interior Karnataka on 09th October.
- Strong surface winds (speed reaching 30-40 kmph) over Coastal Andhra Pradesh & Yanam on 09th October.

East India:

- Light to moderate rain/thunderstorm at some/ isolated places with isolated heavy rainfall likely over Odisha during 09th – 12th October.

Northeast India:

- Light/moderate rain/thunderstorm at some/isolated places with isolated **heavy rainfall** likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 09th & 10th 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 Uttarakhand; **at many places** over Coastal Andhra Pradesh & Yanam and Lakshadweep; **at a few places** over Himachal Pradesh, Chhattisgarh, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **at isolated places** over Bihar, Haryana-Chandigarh-Delhi, Punjab, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Vidarbha; **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**: Kil Kotagiri Estate (dist Nilgiris) 13; Kunderipallam (dist Erode) 9; Udumalpet (dist Tiruppur) 7; **Rayalaseema**: Gorantla (dist Sri Sathyasai District) 12; Bathalapalle (dist Sri Sathyasai District) 8; Anantpur (dist Anantapuramu), Pullampeta (dist Annamayya District) 7 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 Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

❖ **Minimum Temperature Departures (as on 09-10-2025): markedly above normal(> 5.1°C)** at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Bihar and East Uttar Pradesh. **appreciably above normal(3.1°C to 5.0°C)** at isolated places over West Uttar Pradesh, East Madhya Pradesh, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at few places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, Jharkhand, West Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and North Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh and South Interior Karnataka; at most places over Gujarat Region, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at few places over Arunachal Pradesh, Uttarakhand, West Rajasthan, East Rajasthan and Marathwada; at isolated places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad. **The lowest minimum temperature** of 11.2°C is reported at UNA (HIMACHAL PRADESH) over the Plains of India.

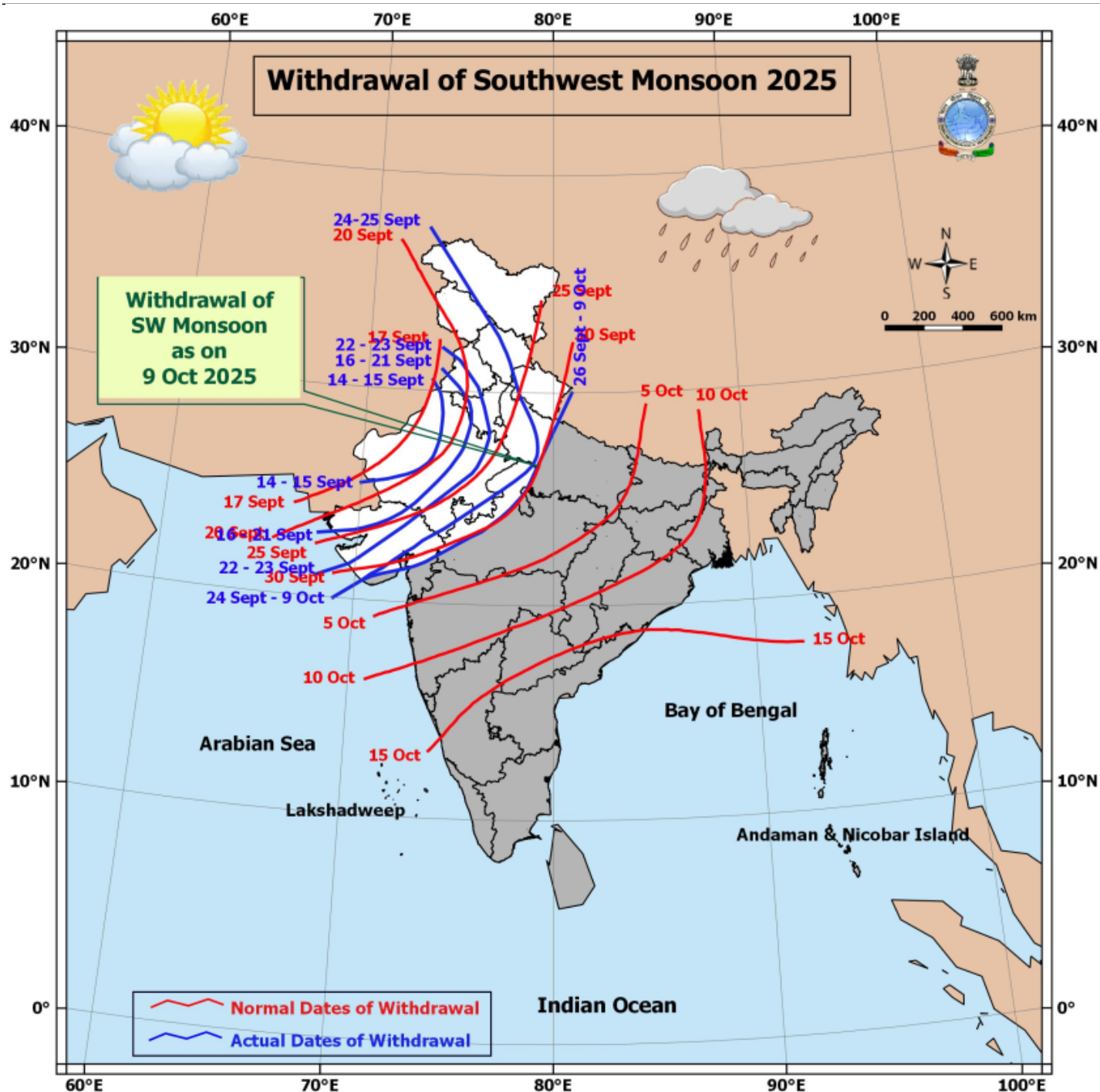
❖ **Maximum Temperature Departures (as on 08-10-2025): appreciably above normal(3.1°C to 5.0°C)** at few places over Arunachal Pradesh; at isolated places over Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, South Interior Karnataka and Kerala & Mahe. **above normal(1.6°C to 3.0°C)** at few places over Sub Himalayan West Bengal & Sikkim, Coastal Karnataka and Lakshadweep; at isolated places over Assam & Meghalaya, Madhya Maharashtra, Vidarbha, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over Andaman & Nicobar Islands, Bihar, East Madhya Pradesh and Konkan & Goa; at most places over Gangetic West Bengal, Jharkhand and Marathwada; at few places over Nagaland, Manipur, Mizoram & Tripura and East Uttar Pradesh; at isolated places over West Uttar Pradesh, Himachal Pradesh, Gujarat Region and Saurashtra & Kutch. **The highest maximum temperature** of 37.9°C is reported at KAVALI (ANDHRA PRADESH).

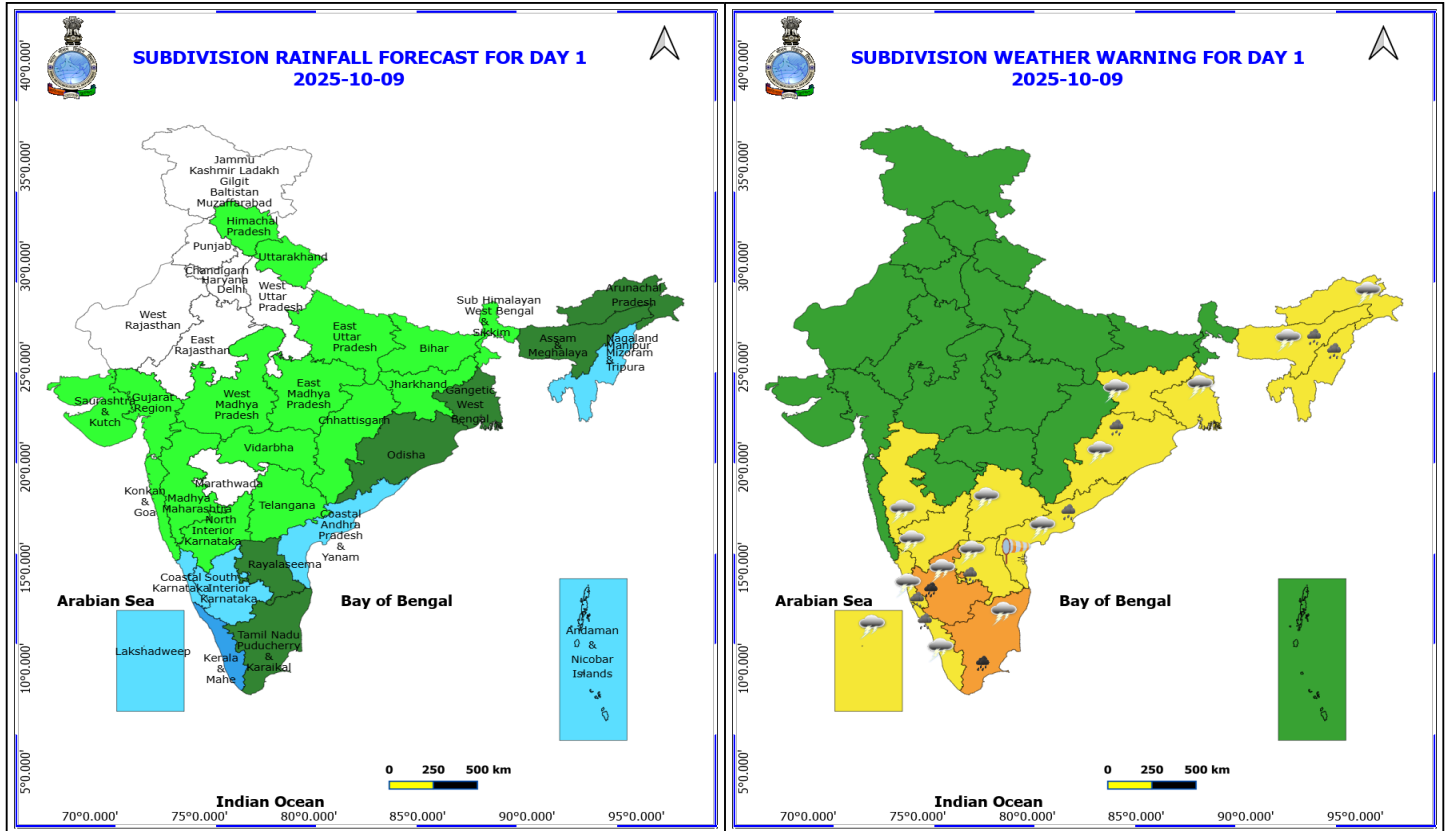
Meteorological Analysis (Based on 0830 hours IST)

- The **line of withdrawal of southwest monsoon** continues to pass through 20°N/ 69°E, Veraval, Bharuch, Ujjain, Jhansi, Shahjahanpur and 30°N/81°E.
- Conditions are favourable for further withdrawal of southwest monsoon from remaining parts of Gujarat; some more parts of Madhya Pradesh and Uttar Pradesh and some parts of Maharashtra during next 24 hours.
- The **well-marked low pressure (Remnant of Cyclonic Storm “Shakhti” [Pronunciation: Shakhti])** over westcentral Arabian Sea persists over the same region at 0830 hrs IST of today, the 9th October, 2025. The associated **cyclonic circulation** extended upto 5.8 km above mean sea level. It is likely to continue to move east-southeastwards over westcentral Arabian Sea and weaken further into a low pressure area during next 24 hours.
- The **upper air cyclonic circulation** over south Bangladesh & neighbourhood extended upto 5.8 km above mean sea level persists.
- The **trough** from south Odisha to Gulf of Mannar now runs from south Odisha to Comorin area across coastal Andhra Pradesh, Rayalaseema, and Tamil Nadu, at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over Comorin area & neighbourhood persists and now seen at 3.1 km above mean sea level.
- An **upper air cyclonic circulation** lies over southeast Arabian Sea adjoining north Kerala at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over central Assam & neighbourhood persists and now seen at 1.5 km above mean sea level.
- The **Western Disturbance** as a cyclonic circulation over northwest Uttar Pradesh & neighbourhood persists and now seen between 1.5 & 4.5 km above mean sea level.
- The **upper air cyclonic circulation** over north Odisha & neighbourhood at 0.9 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.





9 October (Day 1)

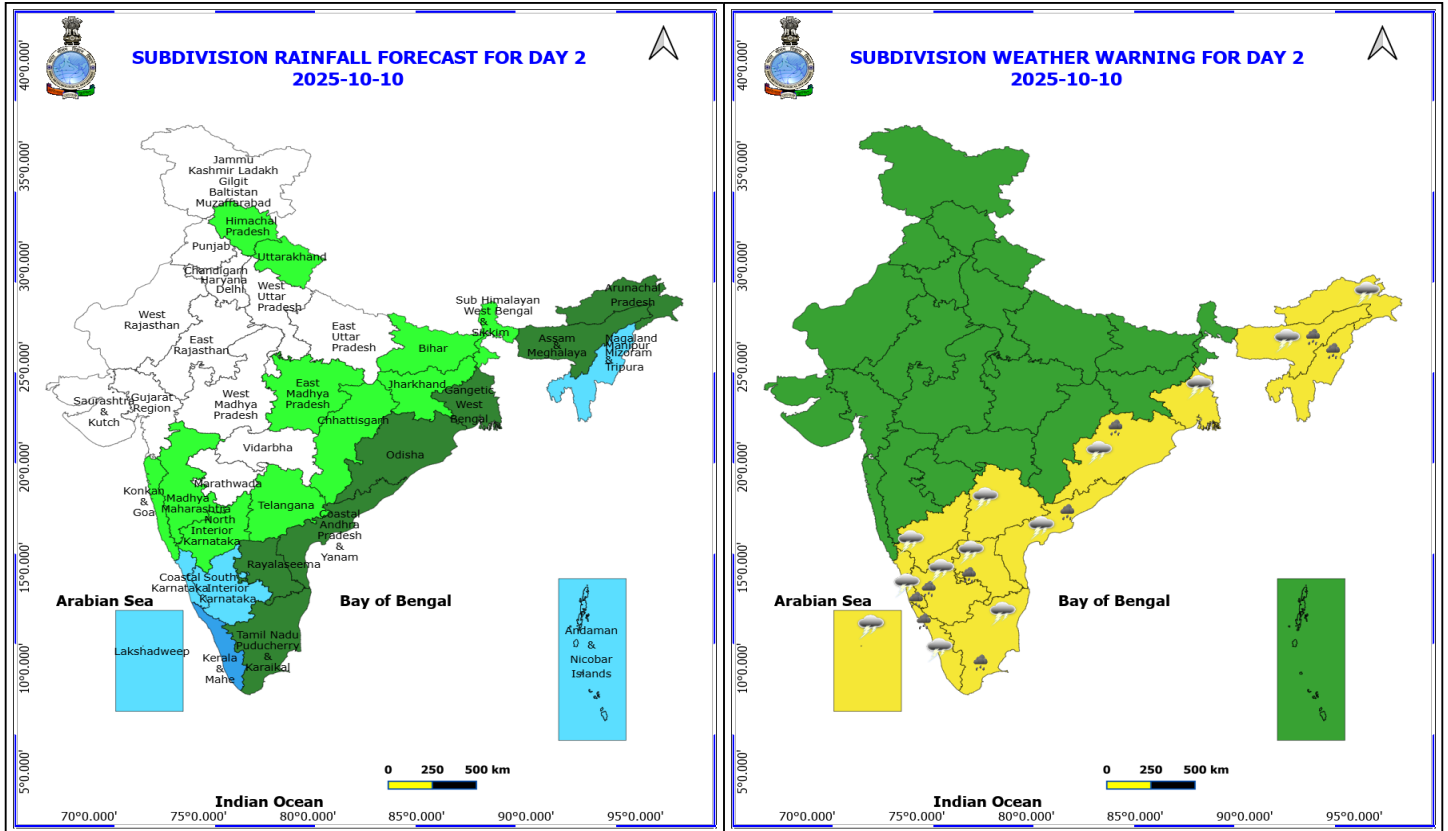
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Coastal Karnataka, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura and Odisha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Coastal Andhra Pradesh, Karnataka and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Gangetic West Bengal, Jharkhand, Kerala & Mahe, Lakshadweep, Madhya Maharashtra, Odisha, Rayalaseema, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Strong Surface Winds** very likely at isolated places over Coastal Andhra Pradesh.
- ❖ **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** likely to prevail along and off Karnataka, Kerala coasts, Lakshadweep Area, Gulf of Mannar & adjoining Comorin area and over westcentral adjoining northwest Arabian sea.

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10 October (Day 2)

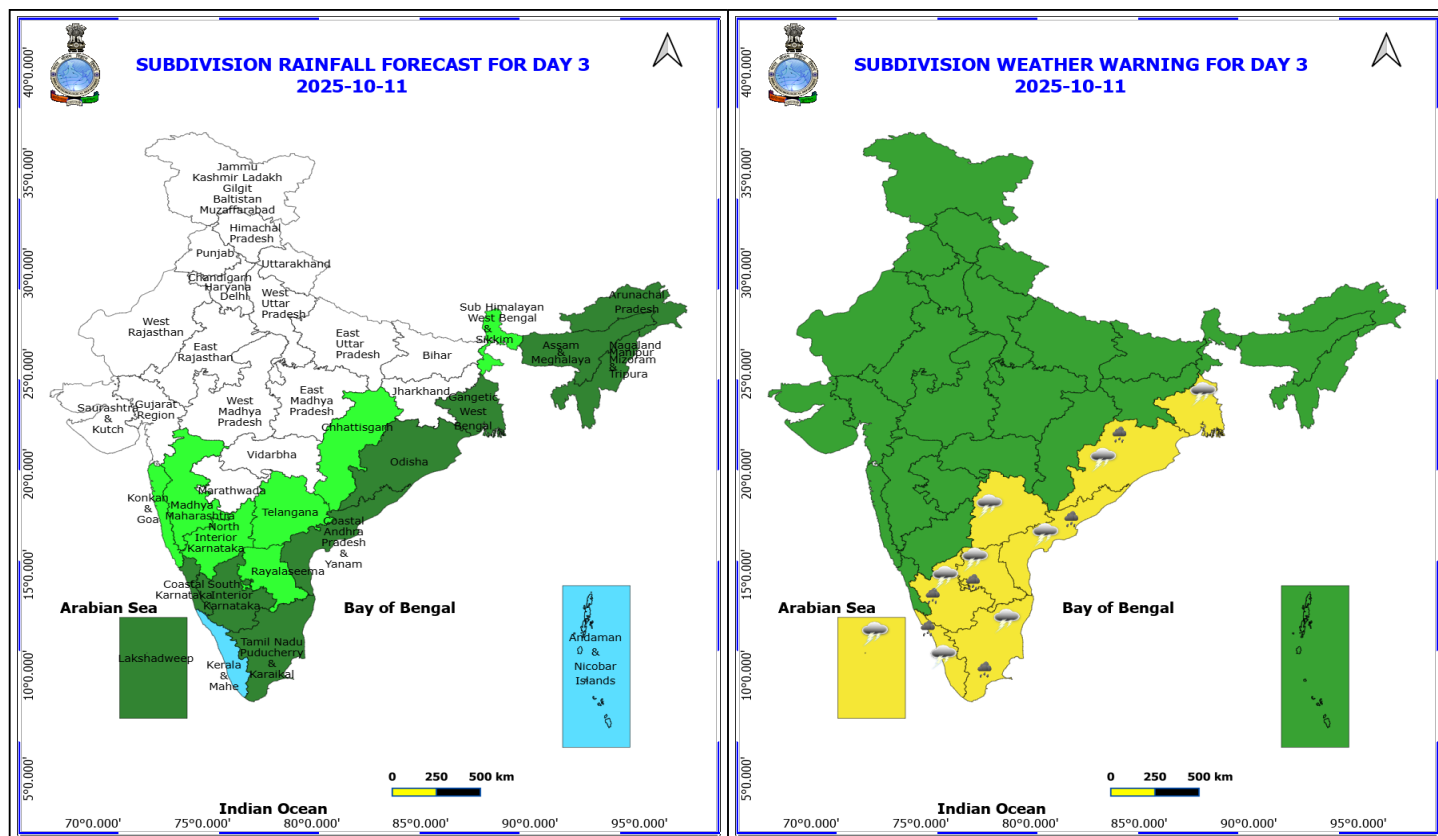
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Coastal Karnataka, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, Odisha, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Karnataka and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, Gangetic West Bengal, Kerala & Mahe, Lakshadweep, Odisha, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** likely to prevail over westcentral adjoining northwest Arabian sea, over Gulf of Mannar & adjoining Comorin area.

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11 October (Day 3)

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

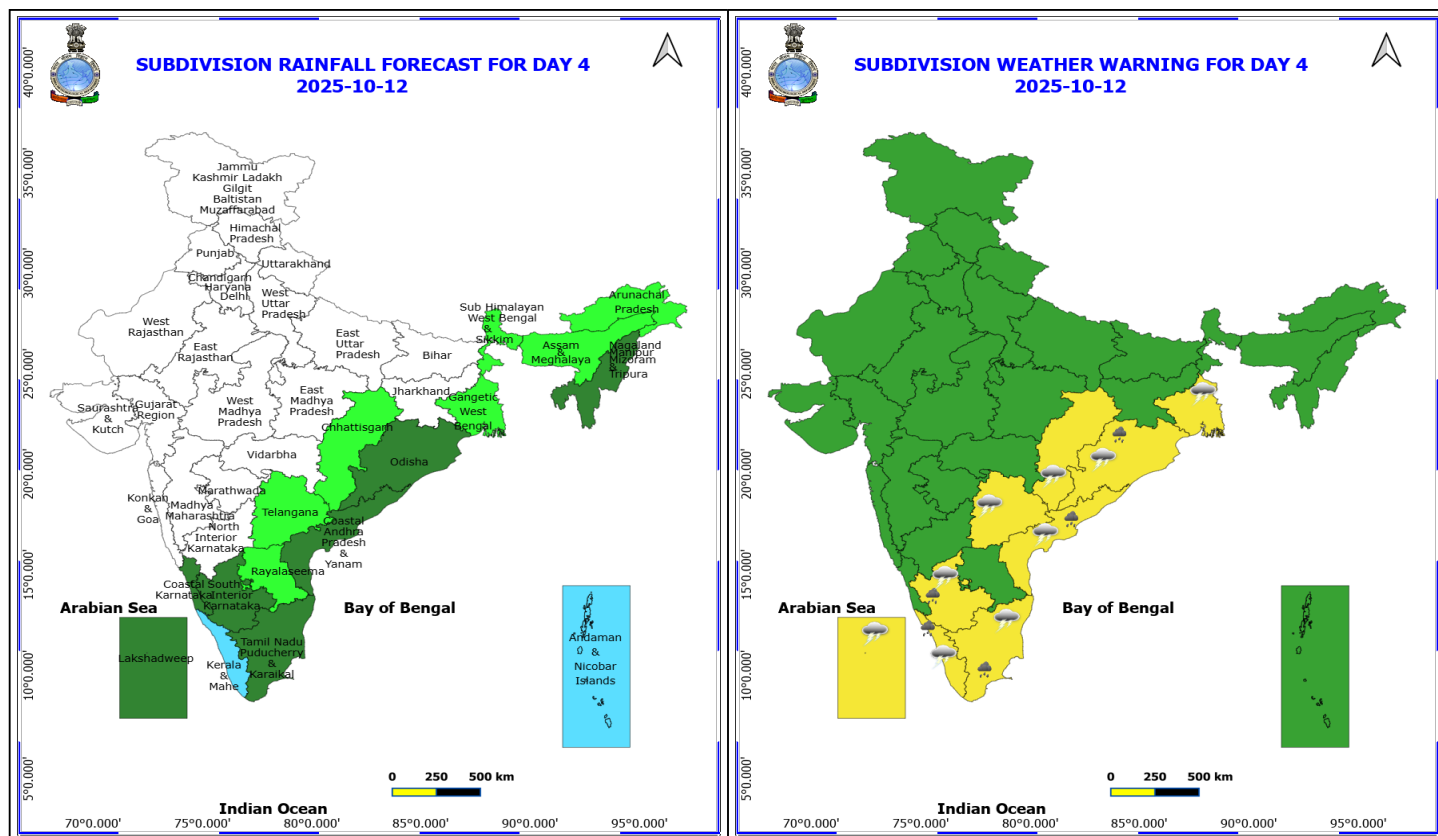
Warning- Nil.

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12 October (Day 4)

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

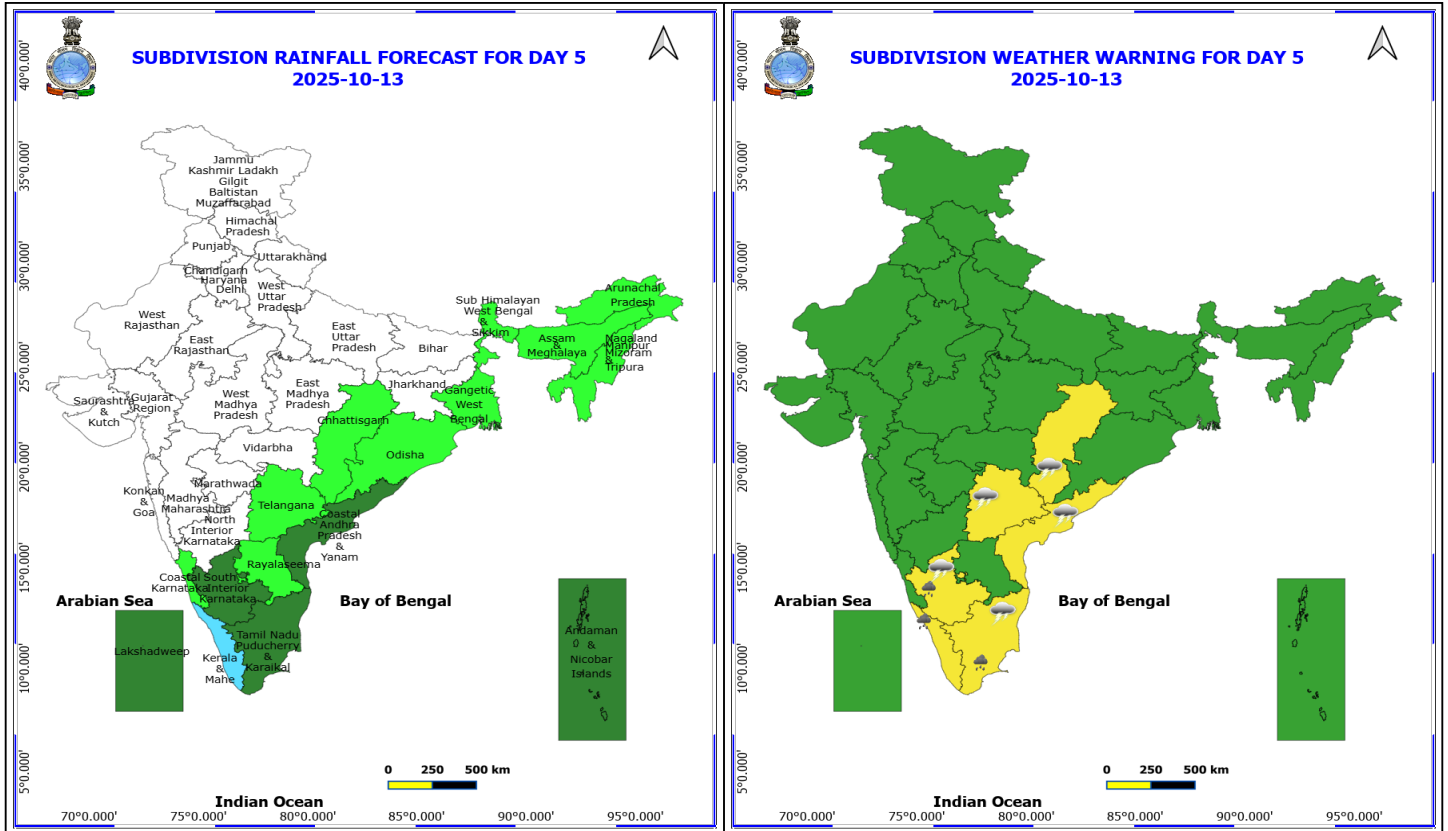
Warning- Nil.

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13 October (Day 5)

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

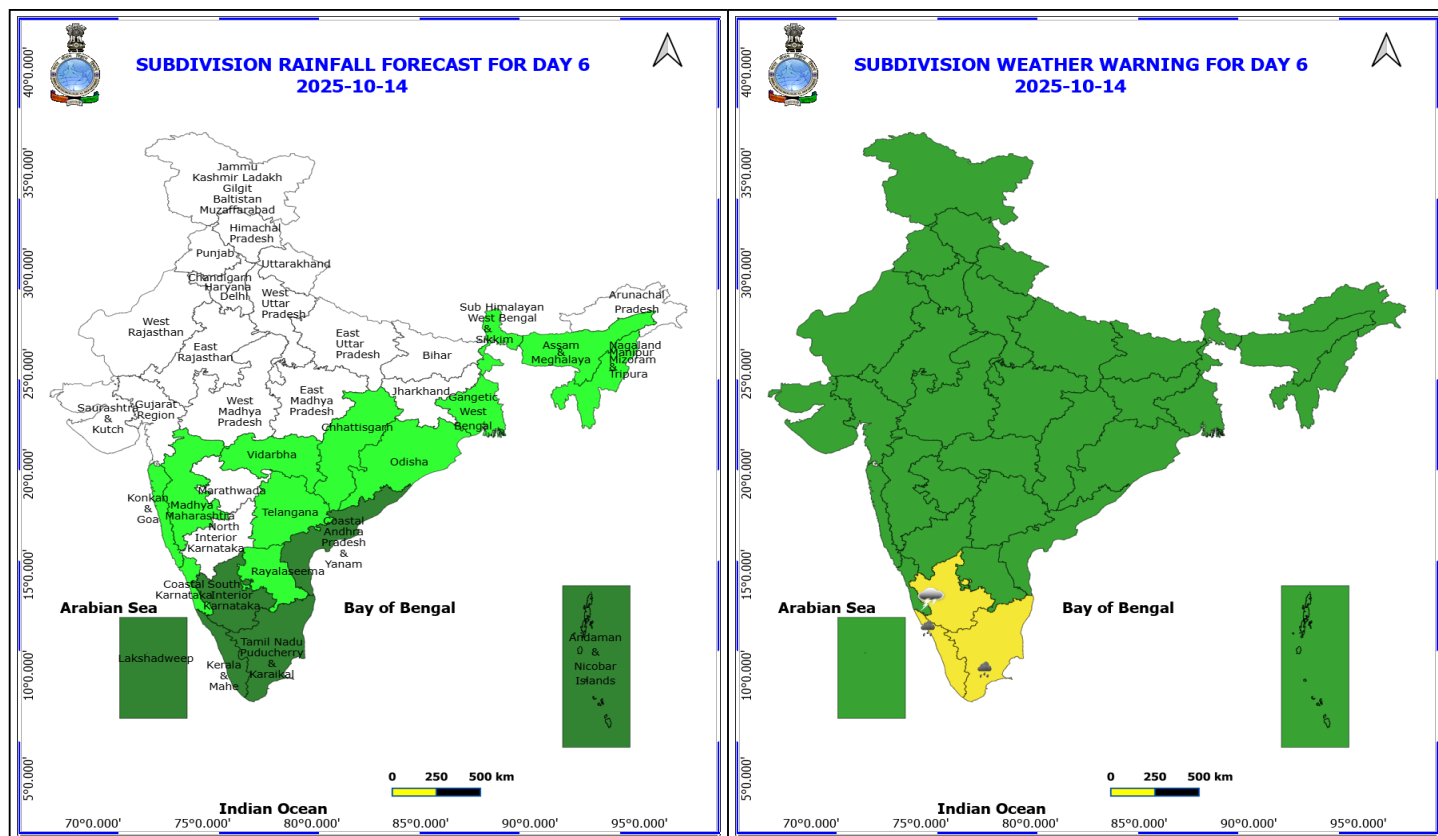
Warning- Nil.

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14 October (Day 6)

- ❖ **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 South Interior Karnataka.

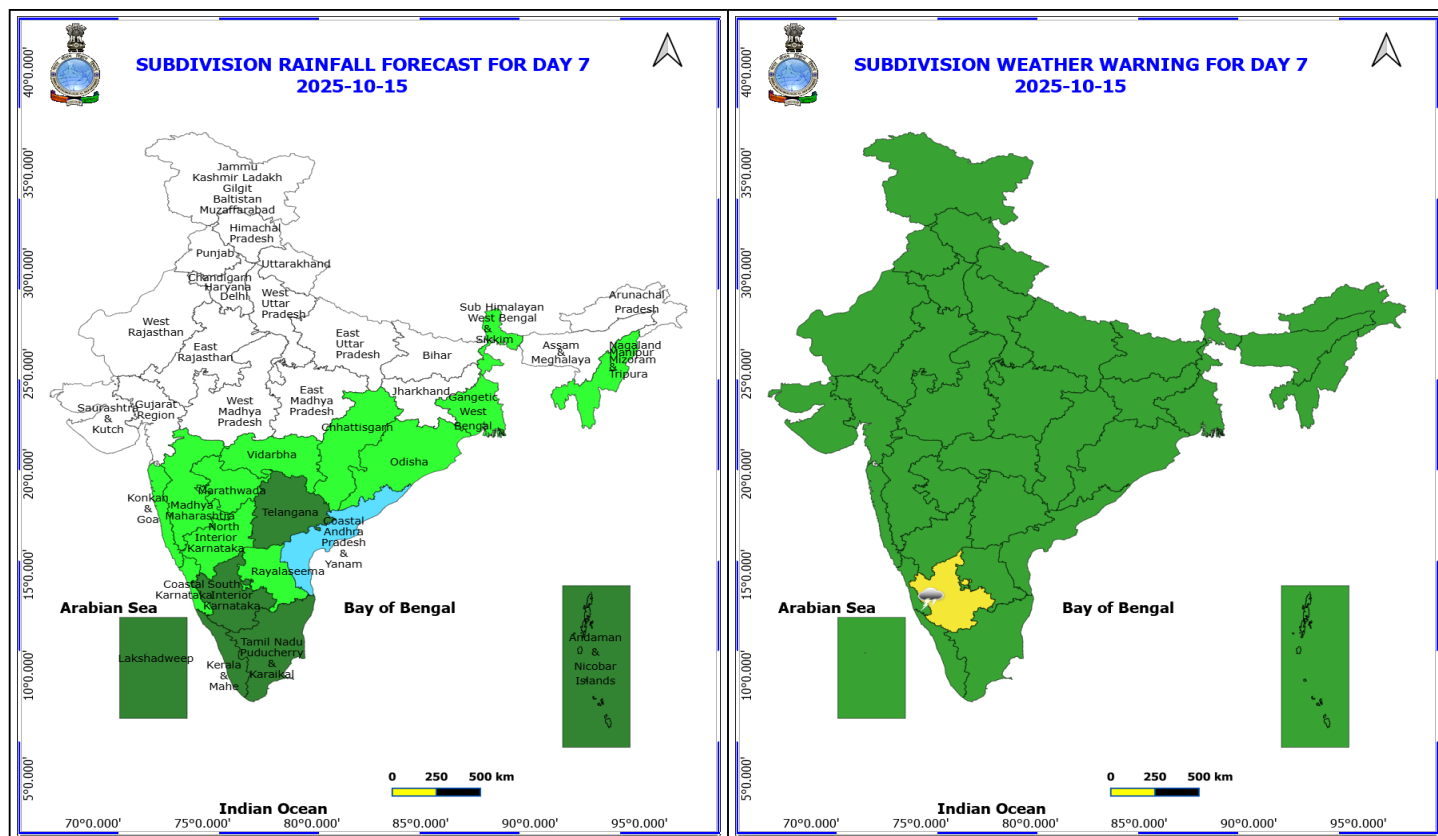
No Fishermen Warning

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15 October (Day 7)

❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over South Interior Karnataka.

No Fishermen Warning

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	9- Oct	10- Oct	11- Oct	12- Oct	13- Oct	14- Oct	15- Oct
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	FWS	FWS	SCT	SCT	SCT
2	ARUNACHAL PRADESH	SCT	SCT	SCT	ISOL	ISOL	DRY	DRY
3	ASSAM & MEHGHALAYA	SCT	SCT	SCT	ISOL	ISOL	ISOL	DRY
4	N. M. M. & T.	FWS	FWS	SCT	SCT	ISOL	ISOL	ISOL
5	S.H. WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
6	GANGETIC WEST BENGAL	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
7	ODISHA	SCT	SCT	SCT	SCT	ISOL	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
9	BIHAR	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	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	ISOL	ISOL	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	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	DRY	DRY	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	DRY	DRY	ISOL	ISOL
25	MARATHWADA	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
26	VIDARBHA	ISOL	DRY	DRY	DRY	DRY	ISOL	ISOL
27	CHATTISGARH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH	FWS	SCT	SCT	SCT	SCT	SCT	FWS
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
30	RAYALASEEMA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	SCT	SCT	SCT	SCT	SCT	SCT	SCT
32	COSTAL KARNATAKA	FWS	FWS	SCT	SCT	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	DRY	DRY	DRY	ISOL
34	SOUTH INTERIOR KARNATAKA	FWS	FWS	SCT	SCT	SCT	SCT	SCT
35	KERALA	WS	WS	FWS	FWS	FWS	SCT	SCT
36	LAKSHDWEAP	FWS	FWS	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 2025-10-08

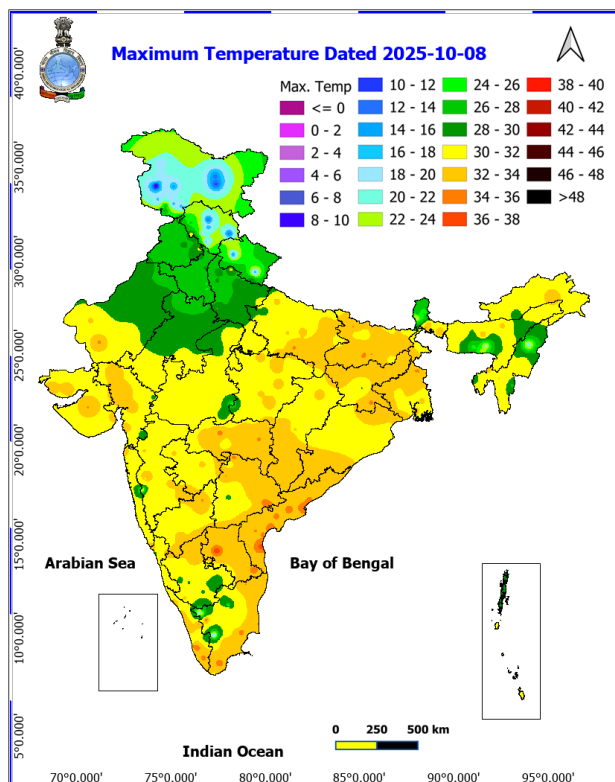


Fig. 2: Departure of Maximum Temp. Dated 2025-10-08

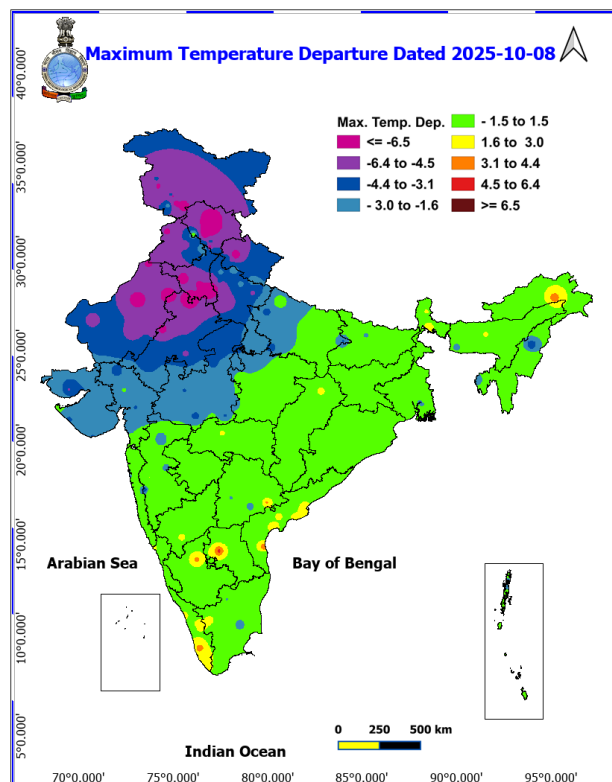


Fig. 3: Minimum Temperatures Dated 2025-10-09

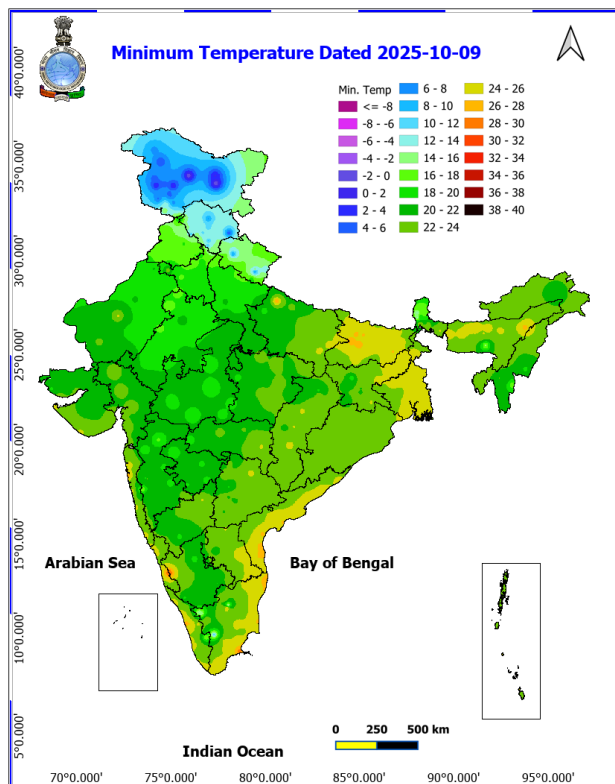
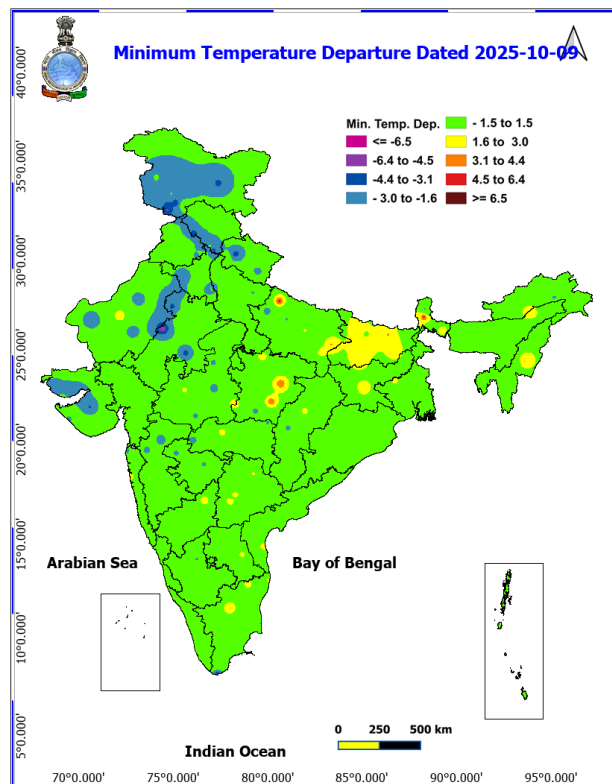
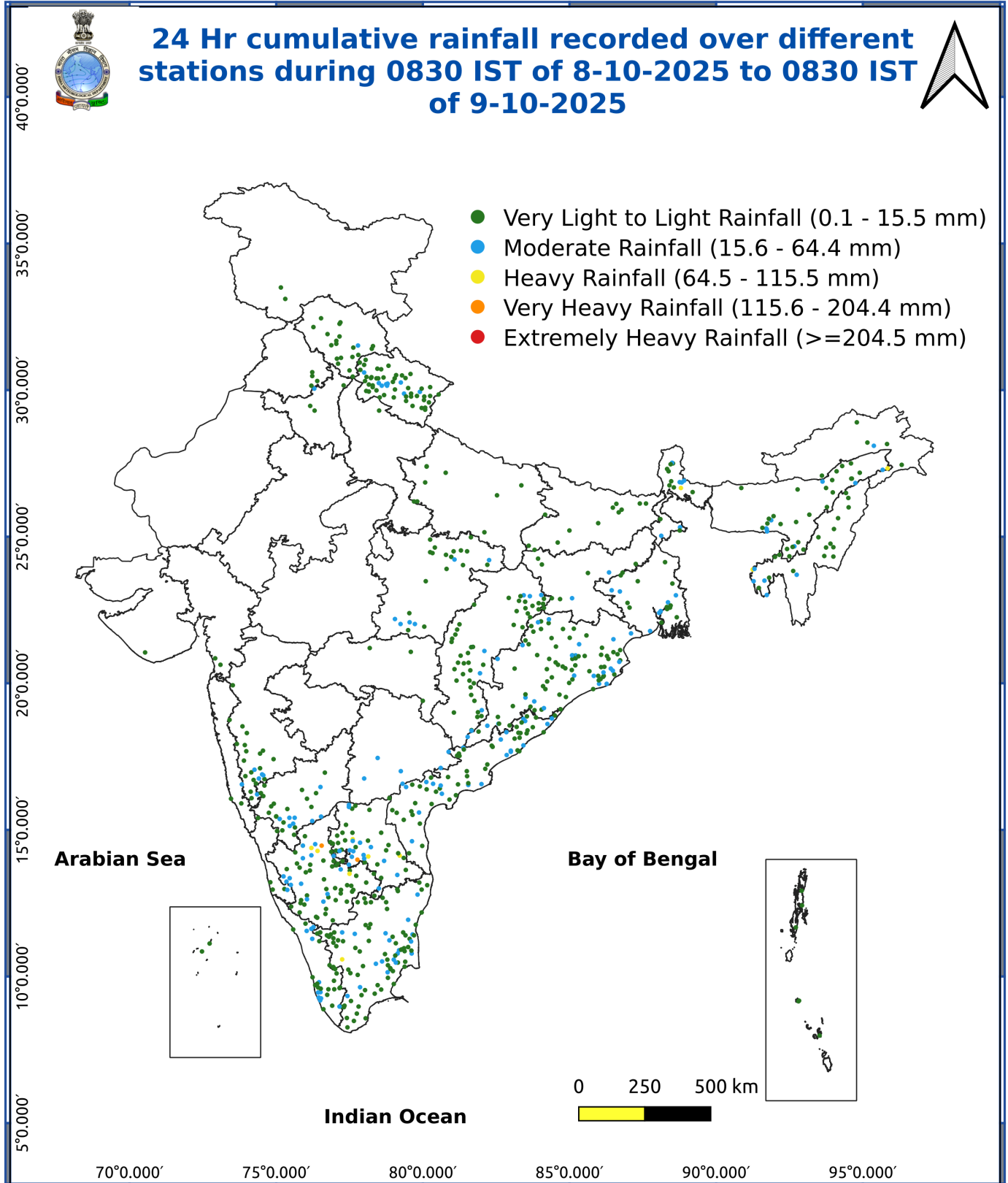


Fig. 4: Departure of Minimum Temp. Dated 2025-10-09





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Impact & Action Suggested due to

Isolated Very heavy rainfall over South interior Karnataka and Tamil Nadu, Puducherry & Karaikal on 09th October.

Impact Expected

- Water logging/ flooding in many parts of low lying area and river banks
- Localized and short term disruption to municipal services (water, electricity, etc.)
- Major disruption of traffic flow. Major roads/local trains affected.
- Possibility of danger to very old buildings and unmaintained structures, falling of trees etc
- Closure of roads crossing low water bridges.

Action Suggested

- Traffic may be regulated effectively
- People in the affected area may restrict their movement.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Heavy / Heavy to Very Heavy Rainfall

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

- 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. 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 **Tamil Nadu**, store the harvested produce of rice and groundnut in safer places. Provide adequate drainage facilities in fields of rice, cotton, turmeric and vegetables and plantations of coconut and banana 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 **Rayalseema**, store the harvested fruits and vegetables in safer places. Drain out excess water from fields of rice, groundnut, cotton, turmeric and vegetables.
- In **Coastal Andhra Pradesh**, provide adequate drainage facilities in fields of rice, maize, pigeon pea, black gram, green gram, groundnut, turmeric, vegetables and plantations of coconut, arecanut, banana, coffee and black pepper.
- In **Coastal Karnataka**, make necessary arrangements to drain out excess water from fields of rice and plantations of coconut and arecanut.
- In **Assam**, harvest all the matured vegetables (tomato, cucumber, brinjal etc). Ensure proper drainage of excess water from fields of *Sali* rice, black gram, green gram and vegetables.
- In **Meghalaya**, make necessary arrangements to drain out excess water from fields of standing crops, vegetables and fruit orchards.
- In **Odisha**, ensure proper drainage in fields of rice, maize, green gram, black gram, groundnut, cotton and vegetables to prevent waterlogging.

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

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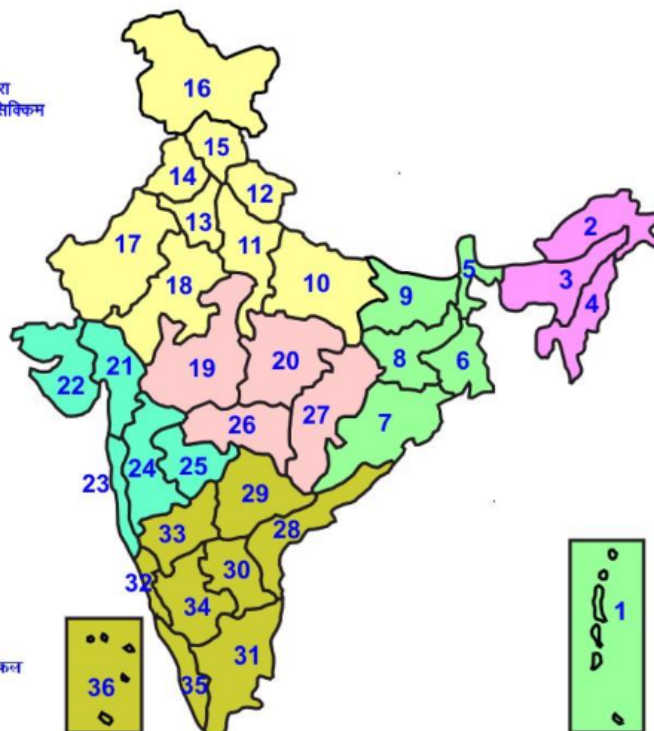


(Based on the IBF and advisories issued by different AMFUs)

- 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. 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 | | | |

*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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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 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)

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