

2025-10-21

Time of Issue: 13:40:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather warning:

South Peninsular India:

Light to moderate rainfall/thunderstorm at many/some places with isolated **heavy rainfall** over Tamil Nadu, Puducherry, Coastal & South Interior Karnataka during 21st-24th; Kerala, Coastal Andhra Pradesh & Yanam, Rayalaseema during 21st-27th; North Interior Karnataka on 23rd & 24th; Telangana during 23rd-25th with **very heavy rainfall over Coastal Andhra Pradesh & Yanam, Rayalaseema during 21st-23rd; South Interior Karnataka on 21st & 22nd, Tamil Nadu on 23rd, Kerala on 21st & 23rd and Coastal Karnataka on 22nd & 23rd October.**

Extremely heavy rainfall (≥ 21 cm) very likely over Tamil Nadu on 21st & 22nd and Kerala on 22nd October.

Thunderstorm with lightning likely over the region during next 5 days.

East & Central India:

Light to moderate rain/thunderstorm at many places with isolated **heavy rainfall** over Andaman & Nicobar Islands during 21st-27th and Odisha on 25th & 26th October.

Thunderstorm with lightning and gusty winds (speed reaching 30-50 kmph) likely over Andaman & Nicobar Islands during 21st-27th; Odisha during 21st-25th and with lightning over Madhya Pradesh, Vidarbha and Chhattisgarh during 21st-25th October.

West India:

Thunderstorm with lightning likely over Konkan & Goa, Marathawada and Madhya Maharashtra during next 5 days.

North India:

Thunderstorm with lightning likely over Uttarakhand on 22nd and Himachal Pradesh on 21st & 22nd 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 Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka and Kerala & Mahe; **at many places** over South Interior Karnataka; **at a few places** over Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema and Lakshadweep; **at isolated places** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Haryana-Chandigarh-Delhi, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, 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**: Thangachimadam (dist Ramanathapuram) 17; Pamban (dist Ramanathapuram) 15; Mandapam (dist Ramanathapuram) 14; Varattupallam (dist Erode) 13; Chidambaram (dist Cuddalore), Chidambaram AWS (dist Cuddalore), Annamalai Nagar (dist Cuddalore), Velankanni (dist Nagapattinam) 10 Each; Nagapattinam (dist Nagapattinam), Karaikal (dist Karaikal), Rameswaram (dist Ramanathapuram), Tirupoondi (dist Nagapattinam) 9 Each; Thalaignayer (dist Nagapattinam), Ayyampettai (dist Thanjavur), Sholinganallur (dist Chennai), Vettikadu (dist Thanjavur) 8 Each; Parangipettai (dist Cuddalore), Mayiladuthurai (dist Mayiladuthurai), Sirkali (dist Mayiladuthurai), Tiruvavur (dist Tiruvavur) 7 Each; **Kerala & Mahe**: Neyyattinkara (dist Thiruvananthapuram) 11; Quilandi (dist Kozhikode) 9; Irinjalakuda (dist Thrissur), Piravam (dist Ernakulam) 7 Each; **Rayalaseema**: Sullurpeta (dist Tirupati) 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 Tamil Nadu, Puducherry & Karaikal. **Heavy rain** at isolated places over Rayalaseema and Kerala & Mahe.

❖ **Minimum Temperature Departures (as on 21-10-2025): markedly above normal(> 5.1°C)** at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Bihar, West Uttar Pradesh and Madhya Maharashtra. **appreciably above normal(3.1°C to 5.0°C)** at few places over Haryana-Chandigarh-Delhi, West Rajasthan and Vidarbha; at isolated places over Odisha, East Uttar Pradesh, East Rajasthan, Gujarat Region, Saurashtra & Kutch, Konkan & Goa and Marathwada. **above normal(1.6°C to 3.0°C)** at many places over Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh and East Madhya Pradesh; at most places over Punjab; at few places over Jharkhand, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Chhattisgarh and Telangana; at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, 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 Andaman & Nicobar Islands, Arunachal Pradesh, Rayalaseema, Coastal Karnataka, South Interior Karnataka, Kerala & Mahe and Lakshadweep. **The lowest minimum temperature** of 15.4°C is reported at RAJGARH(WEST MADHYA PRADESH) over the Plains of India.

❖ **Maximum Temperature Departures (as on 20-10-2025): markedly above normal(> 5.1°C)** at isolated places over Assam & Meghalaya and Punjab. **appreciably above normal(3.1°C to 5.0°C)** at few places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Sub Himalayan West Bengal & Sikkim; at isolated places over Gangetic West Bengal, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad and Chhattisgarh. **above normal(1.6°C to 3.0°C)** at many places over Jharkhand, Uttarakhand and Himachal Pradesh; at few places over Bihar and Konkan & Goa; at isolated places over Odisha, East Uttar Pradesh, Haryana-Chandigarh-Delhi, Saurashtra & Kutch, Madhya Maharashtra, Vidarbha and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over West Uttar Pradesh, East Rajasthan, Gujarat Region, Coastal Andhra Pradesh & Yanam and North Interior Karnataka; at most places over West Rajasthan, Marathwada, Telangana, Coastal Karnataka and Lakshadweep; at few places over Andaman & Nicobar Islands, West Madhya Pradesh, East Madhya Pradesh, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka. **The highest maximum temperature** of 37.6°C is reported at LUDHIANA (PUNJAB).

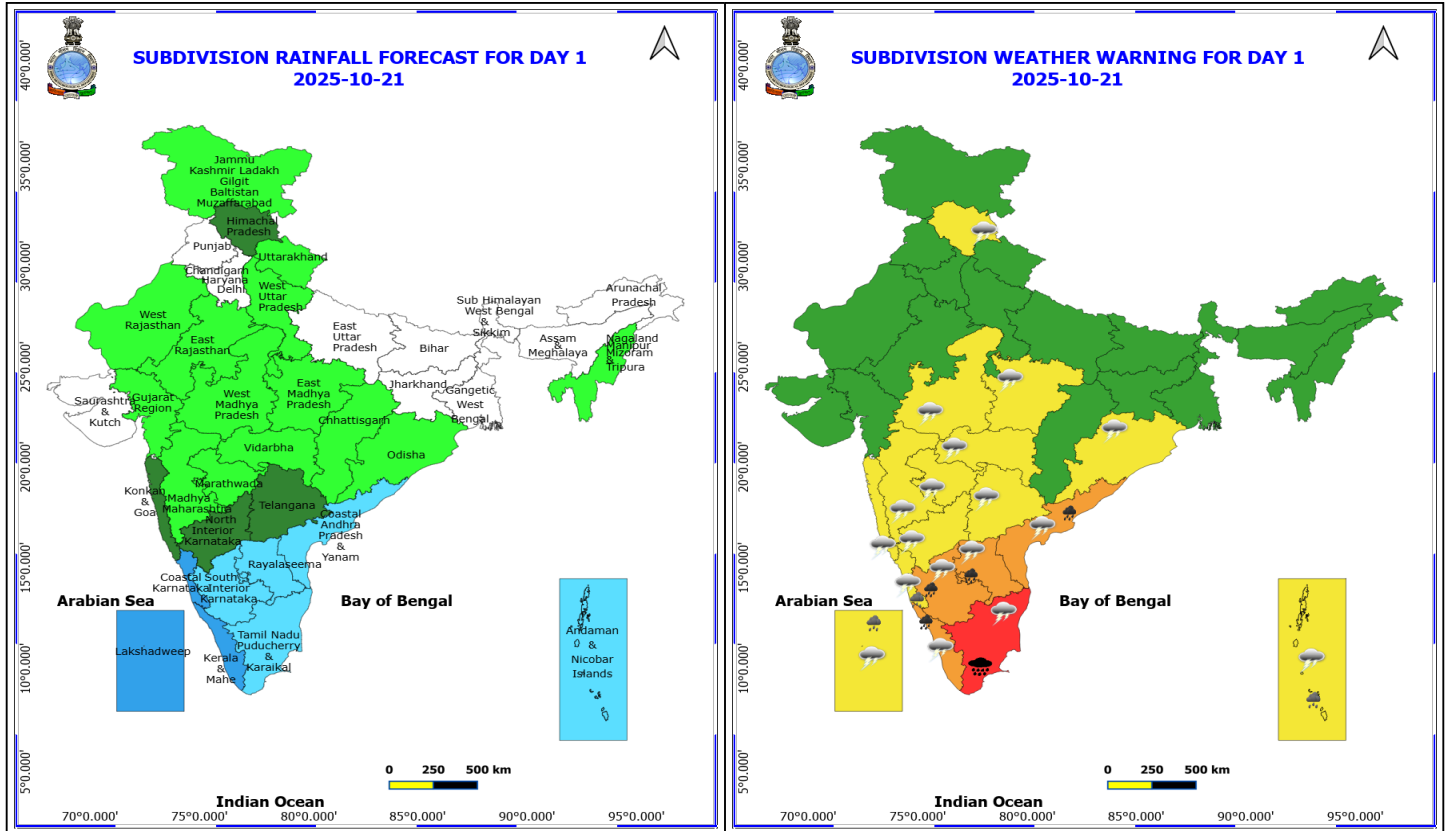


Meteorological Analysis (Based on 0830 hours IST)

- The low pressure area over southwest Bay of Bengal became a **Well-marked low pressure area** over the same region at 0830 hrs IST of today, the 21st October 2025 and the associated cyclonic circulation extends upto 7.6 km above mean sea level. It is likely to move west-northwestwards and intensify into a depression over southwest & adjoining Westcentral Bay of Bengal off north Tamil Nadu & south Andhra Pradesh coasts by afternoon of tomorrow, the 22nd October 2025. Thereafter, it is likely to continue to move west-northwestwards towards north Tamil Nadu, Puducherry & south Andhra Pradesh coasts and intensify further during subsequent 24 hours.
- The **Well marked Low Pressure** area over southeast Arabian Sea persisted over the same region at 0830 hrs IST of today, 21st October 2025 and the associated cyclonic circulation extends upto 5.8 km above mean sea level. It is likely to move slowly westwards and intensify into a depression during next 24 hours.
- An **upper air cyclonic circulation** lay over south Andaman Sea & neighbourhood and extends upto 5.8 km above mean sea level.
- The **upper air cyclonic circulation** over northwest Rajasthan & neighbourhood lay over southwest Rajasthan & neighbourhood and extends upto 3.1 km above mean sea level.
- The **Western Disturbance** as a trough in middle and upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 68°E to the north of Lat. 25°N.
- The upper air cyclonic circulation over southeast Arabian Sea off Kerala coast extending upto 1.5 km above mean sea level has become less marked.
- The trough from the cyclonic circulation associated with well marked Low-Pressure area over southeast Arabian Sea to southeast and adjoining southwest Bay of Bengal has become less marked.
- The trough from upper air cyclonic circulation over northwest Rajasthan & neighbourhood to central parts of Madhya Pradesh across East Rajasthan at 1.5 km above mean sea level has become less marked.

Weather Outlook for subsequent 3 days

- Fairly widespread to widespread rainfall activity likely over the Northeast India.
- Isolated to scattered rainfall activity likely over West coast and East India.



21 October (Day 1)

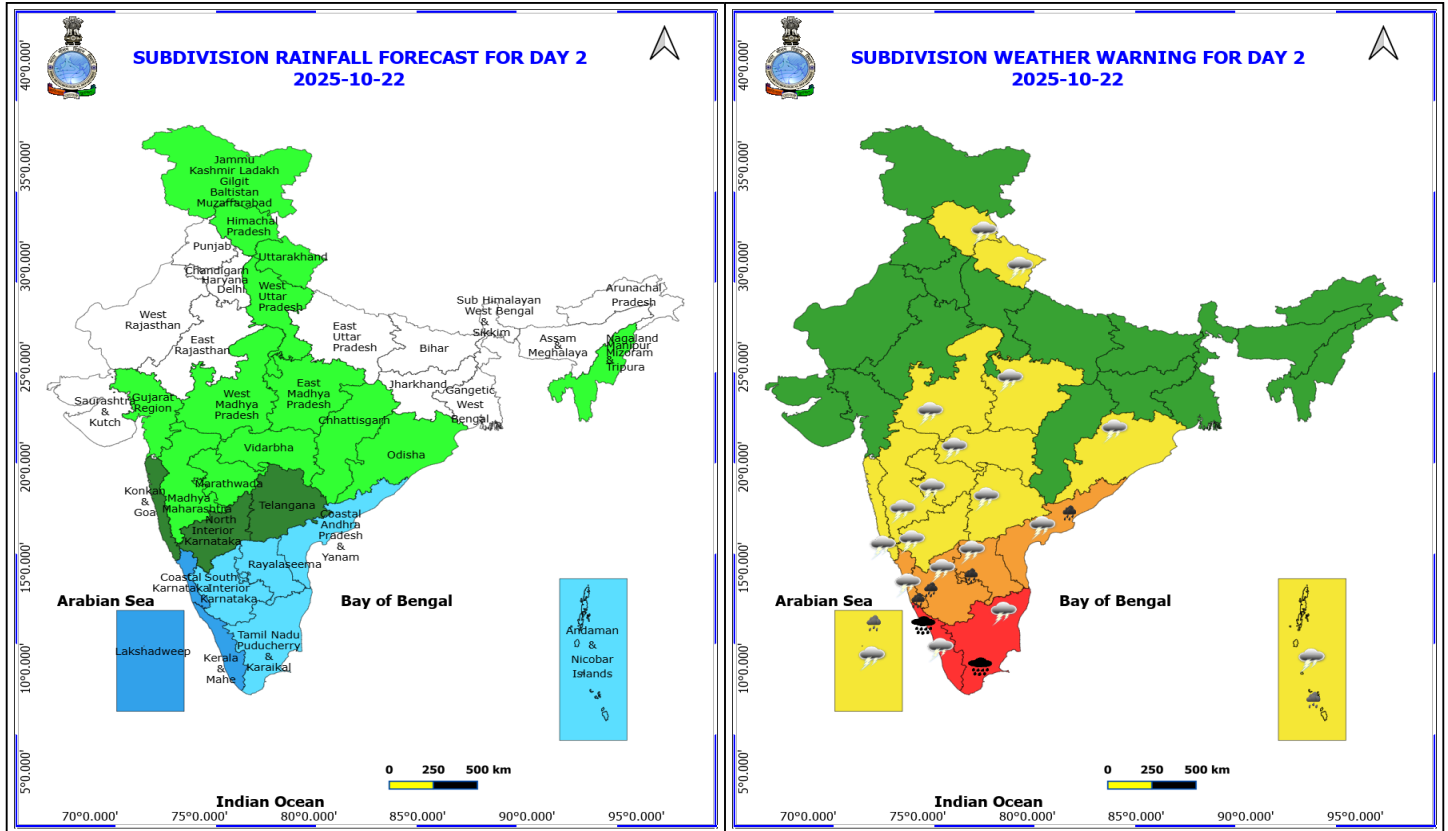
- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Kerala & Mahe and South Interior Karnataka.
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Coastal Karnataka and Lakshadweep.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Karnataka, Kerala & Mahe, Lakshadweep, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Himachal Pradesh, Konkan & Goa, Madhya Pradesh, Maharashtra and Tamil Nadu Puducherry & Karaikal.
- ❖ **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, westcentral, eastcentral Arabian Sea, over Gulf of Mannar, along and off Tamil Nadu, Sri Lanka coasts, over southwest & adjoining southeast Bay of Bengal, Andaman Sea.

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22 October (Day 2)

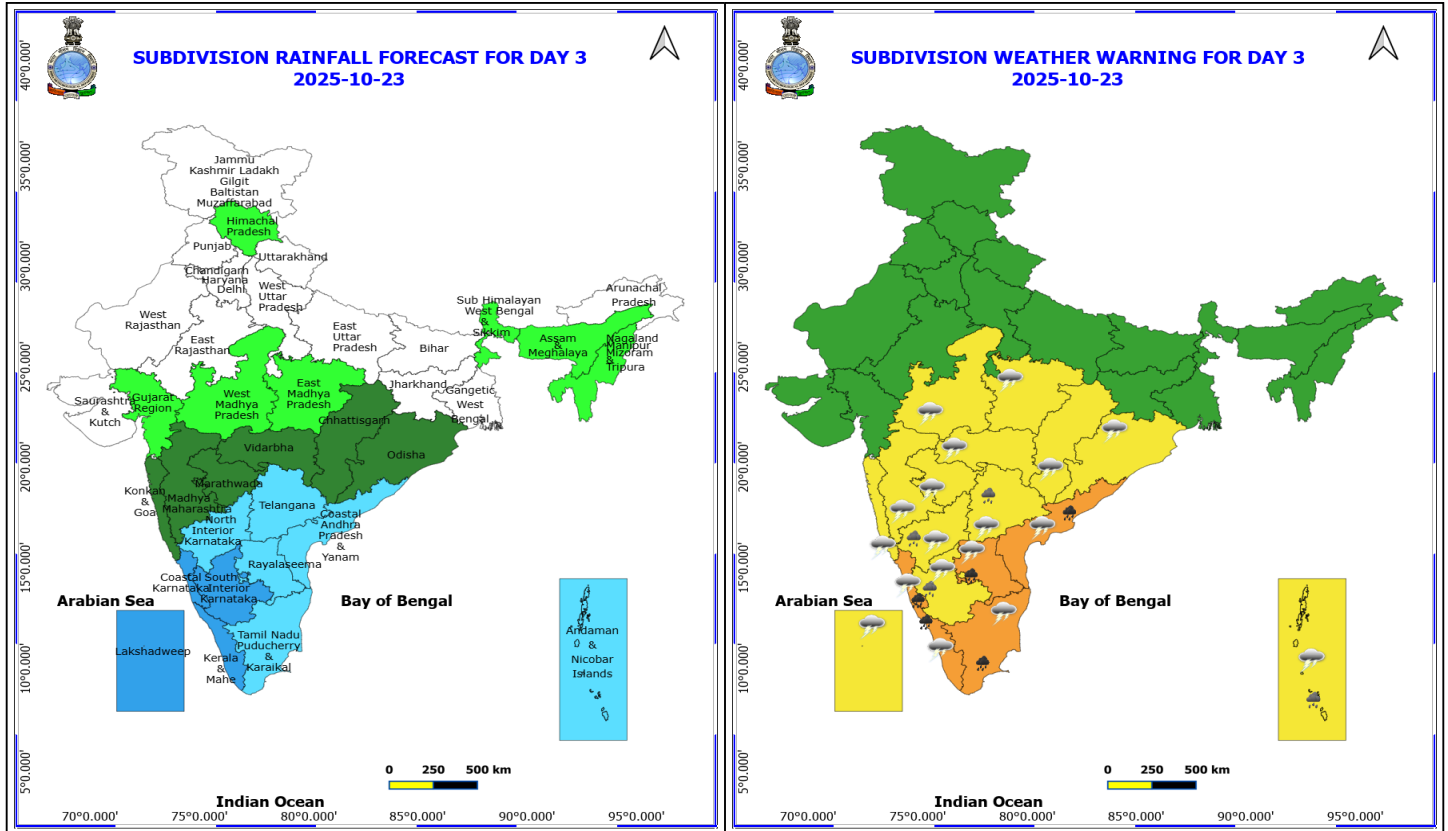
- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Coastal Karnataka and South Interior Karnataka.
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands and Lakshadweep.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Karnataka, Kerala & Mahe, Lakshadweep, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Himachal Pradesh, Konkan & Goa, Madhya Pradesh, Maharashtra, Tamil Nadu Puducherry & Karaikal and Uttarakhand.
- ❖ **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, most parts of southwest, and adjoining some parts of eastcentral Arabian Sea, over Gulf of Mannar, over southwest & adjoining parts of southeast, westcentral Bay of Bengal, along and off South Andhra Pradesh, Tamil Nadu, Sri Lanka coasts and over Andaman Sea.
- ❖ **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over some parts of southeast Arabian Sea and adjoining areas, along and off north Tamil Nadu, Puducherry, south Andhra Pradesh coasts and adjoining sea areas.

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23 October (Day 3)

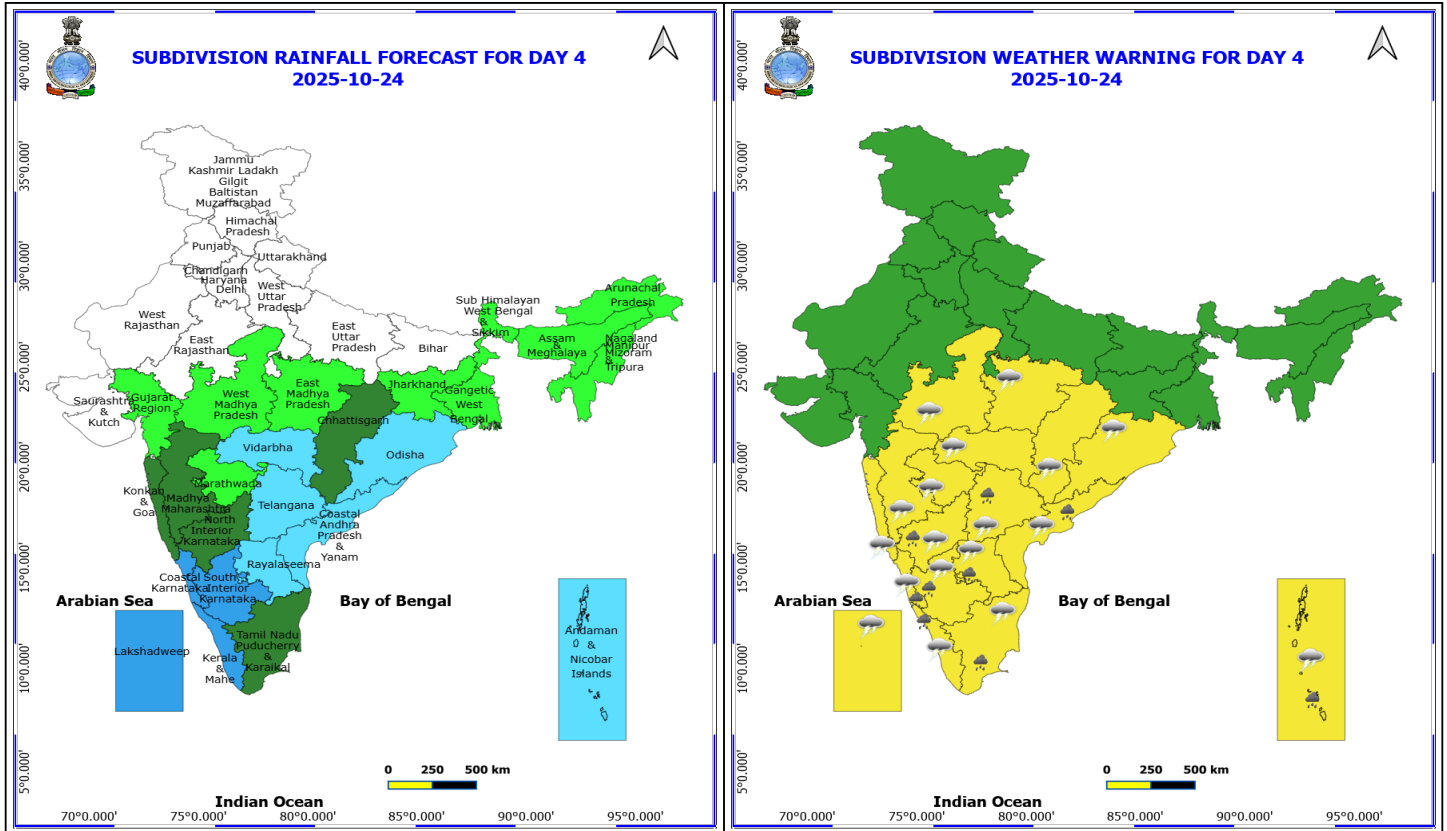
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Coastal Karnataka, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Interior Karnataka and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Karnataka, Kerala & Mahe, Lakshadweep, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Chhattisgarh, Konkan & Goa, Madhya Pradesh, Maharashtra and Tamil Nadu Puducherry & Karaikal.
- ❖ **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, over southeast, and adjoining some parts of southwest, eastcentral Arabian Sea, over Gulf of Mannar, over south and many parts of central Bay of Bengal, along and off South Andhra Pradesh, Tamil Nadu, Sri Lanka coasts and over Andaman Sea.
- ❖ **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off north Tamil Nadu, Puducherry, south Andhra Pradesh coasts and adjoining sea areas.

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24 October (Day 4)

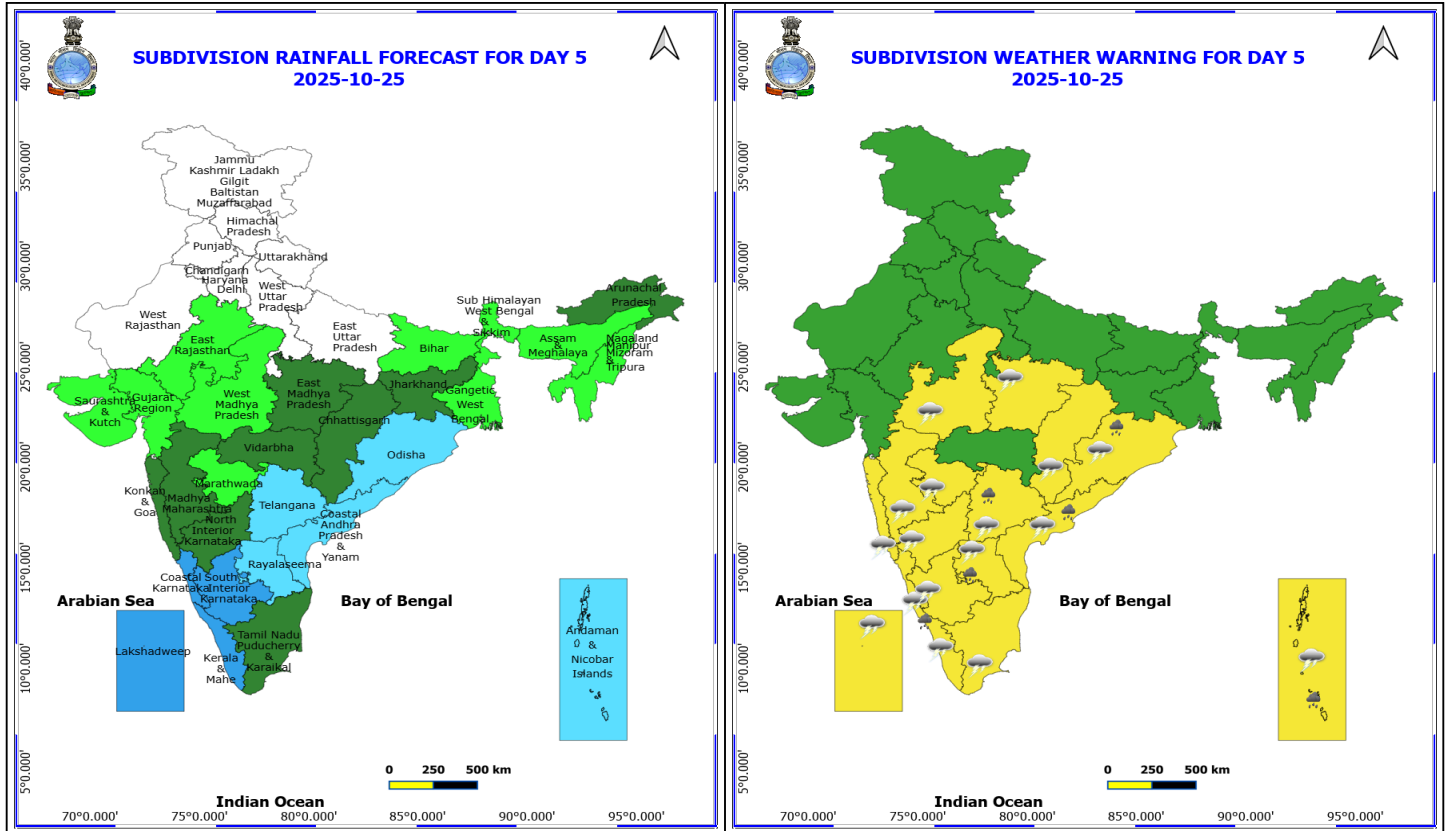
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Karnataka, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Karnataka, Kerala & Mahe, Lakshadweep, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Chhattisgarh, Konkan & Goa, Madhya Pradesh, Maharashtra and Tamil Nadu Puducherry & Karaikal.
- ❖ **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, over southeast, and adjoining some parts of central Arabian Sea, over Gulf of Mannar, over south and most parts of central Bay of Bengal, along and off South Andhra Pradesh, Tamil Nadu, Sri Lanka coasts and over Andaman Sea.

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25 October (Day 5)

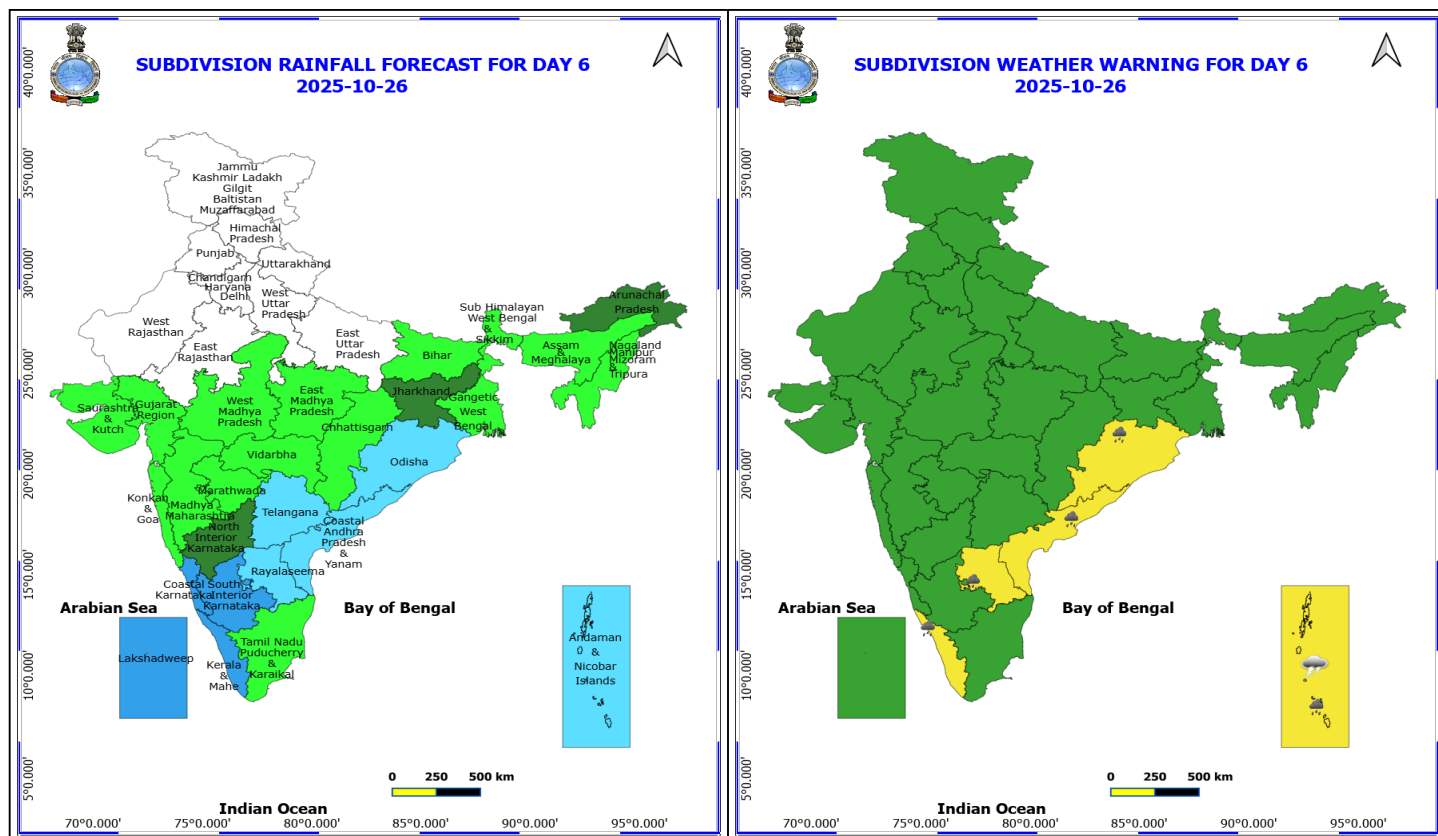
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Kerala & Mahe, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Karnataka, Kerala & Mahe, Lakshadweep, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Madhya Pradesh, Marathwada and Tamil Nadu Puducherry & Karaikal.
- ❖ **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, over southeast, and adjoining some parts of southwest, westcentral Arabian Sea, many parts of eastcentral Arabian Sea, over Gulf of Mannar, over south and most parts of central Bay of Bengal, along and off South Andhra Pradesh, Tamil Nadu, Sri Lanka coasts and over Andaman Sea.

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26 October (Day 6)

❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Kerala & Mahe and Odisha.

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands.

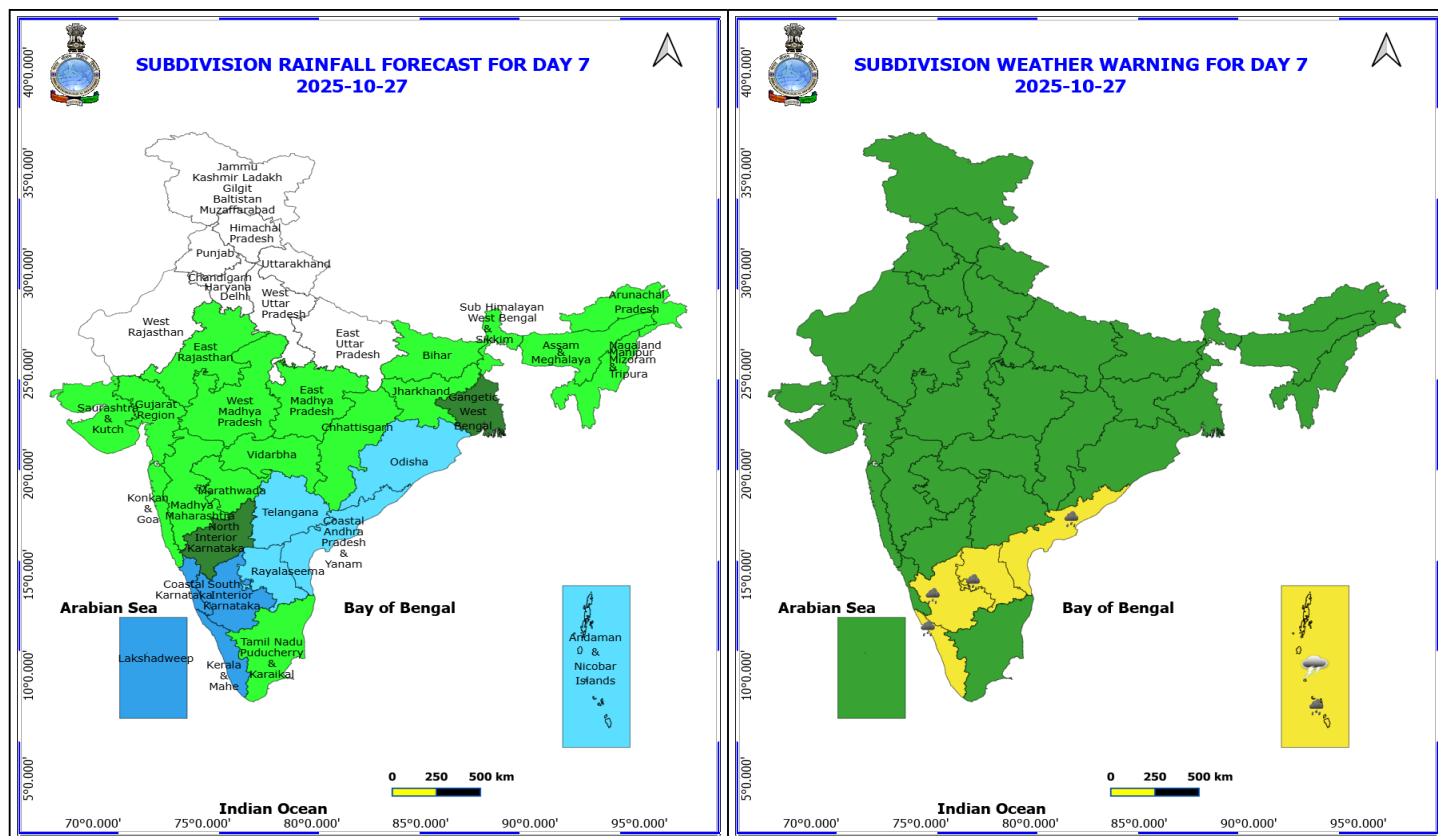
No Fishermen Warning

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27 October (Day 7)

❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Kerala & Mahe and South Interior Karnataka.

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands.

No Fishermen Warning

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Flash Flood Warnings

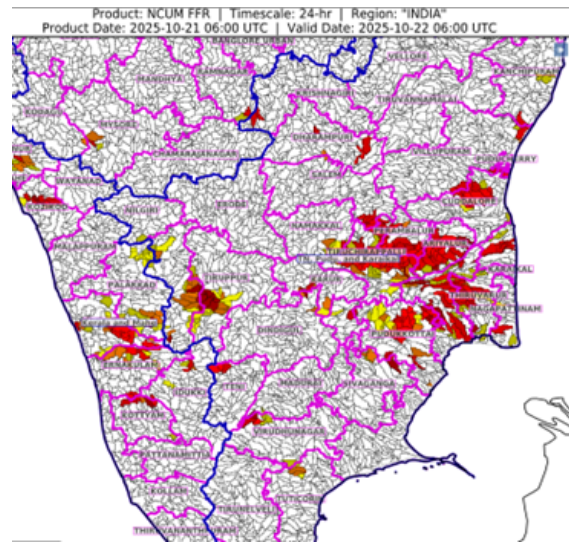
24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 22-10-2025 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

Kerala & Mahe - Ernakulam, Idukki, Kottayam, Palakkad and Trishur districts.

Tamil Nadu - Puducherry & Karaikal - Karaikal, Puduchery, Ariyalur, Coimbatore, Cuddalore, Dharampuri, Kanchipuram, Karur, Nagapattinam, Namakkal, Perambalur, Pudukkottai, Sivaganga, Thanjavur, Thiruvarur, Tiruchirappalli, Tiruppur, Tuticorin and Virudhunagar districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.



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Table-1

7 Days Rainfall Forecast

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

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 2025-10-20

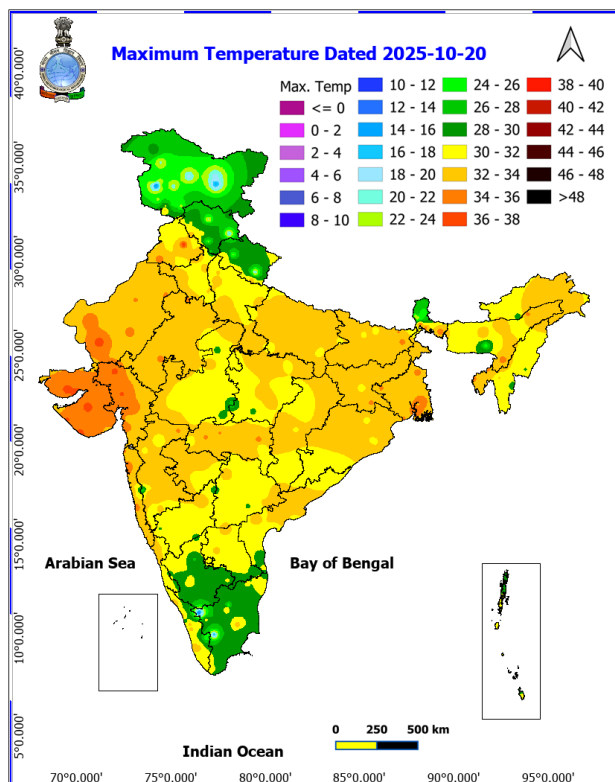


Fig. 2: Departure of Maximum Temp. Dated 2025-10-20

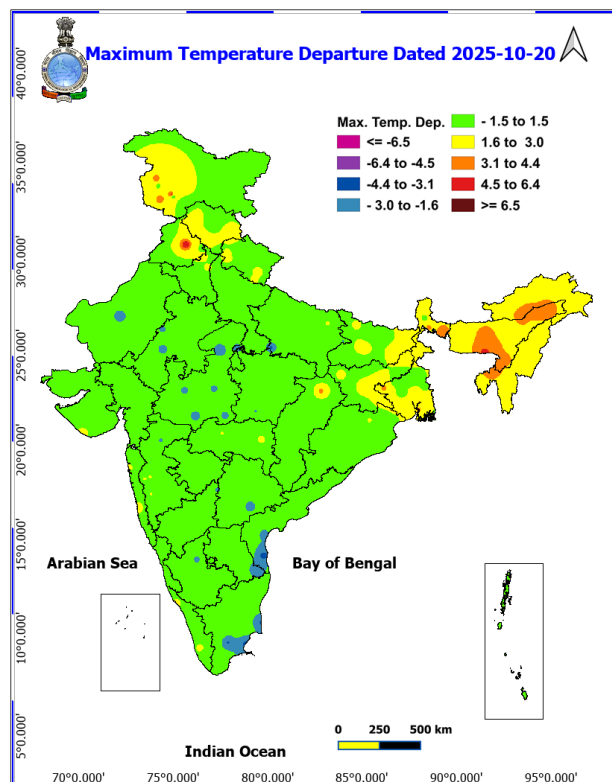


Fig. 3: Minimum Temperatures Dated 2025-10-21

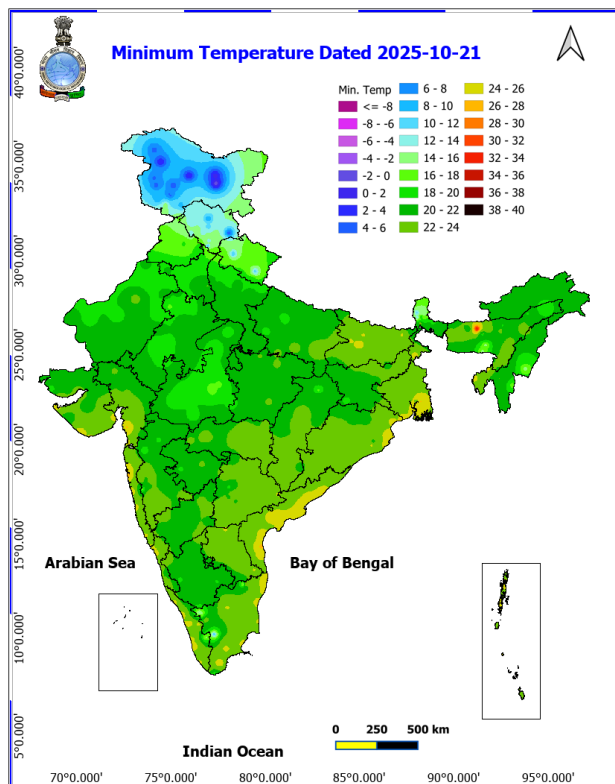
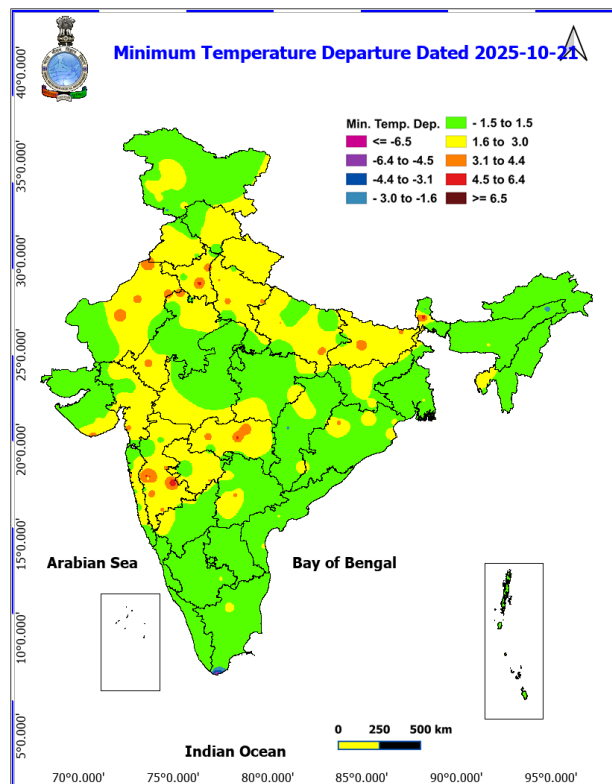
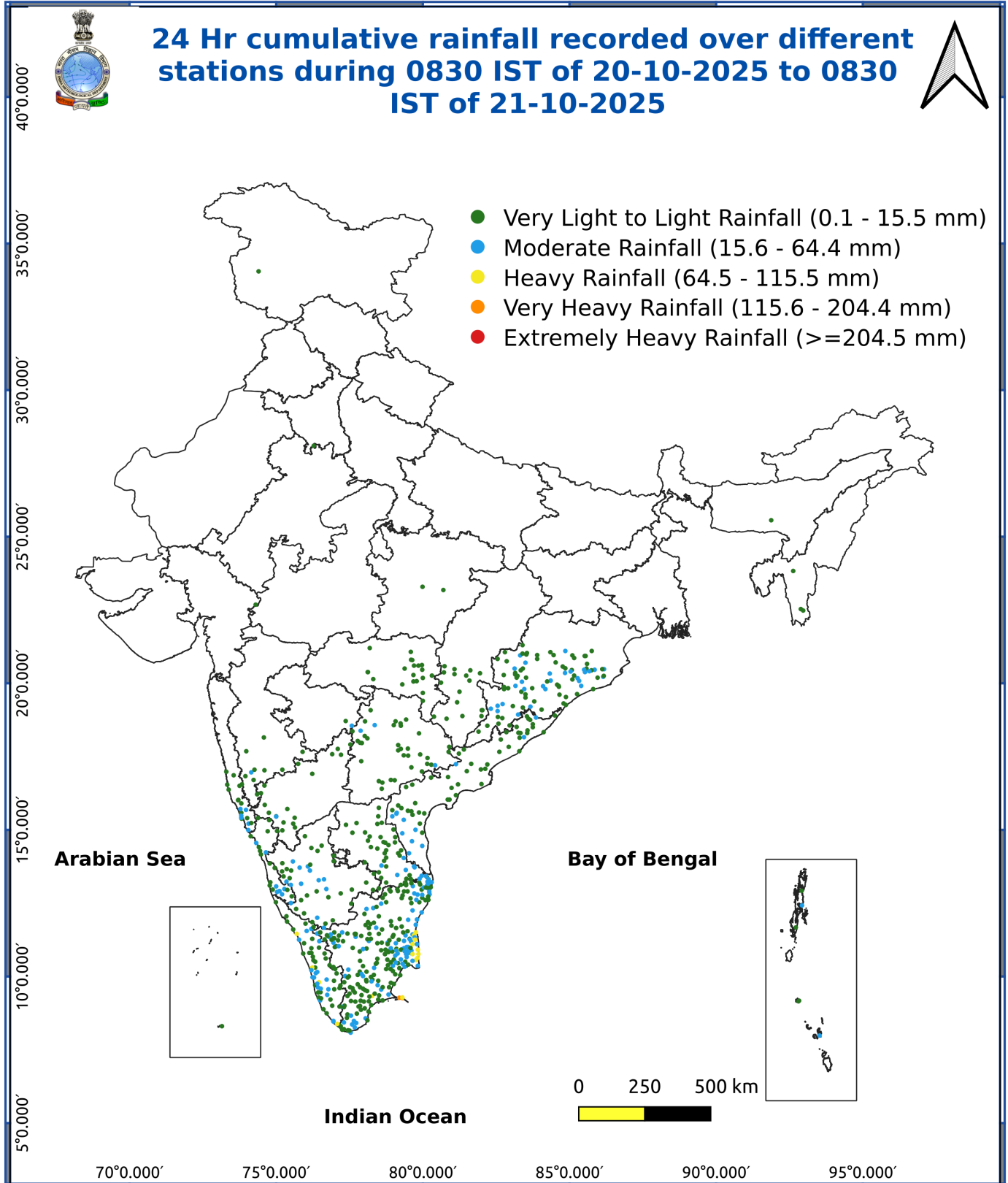


Fig. 4: Departure of Minimum Temp. Dated 2025-10-21





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Impact & Action Suggested due to

Extremely heavy rainfall very likely over Tamil Nadu on 21st & 22nd and Kerala on 22nd October.

Very heavy rainfall over Tamil Nadu, Kerala during 21st - 24th; Coastal Karnataka on 22nd & 23rd; South Interior Karnataka on 21st & 22nd; Coastal Andhra Pradesh & Yanam and Rayalaseema during 21st-23rd 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 / Heavy to Very Heavy / Extremely Heavy Rainfall

In **Tamil Nadu**, store the harvested produce of rice and groundnut in safer places. Drain out excess water from fields of rice, cotton, black gram, maize, tapioca and vegetables and plantations of coconut, banana and black pepper to avoid water stagnation.

In **Kerala**, keep the harvested produce of rice in safer places. Drain out excess water from fields of rice, vegetables and plantations of banana, coconut, arecanut, cardamom and black pepper.

In **Andhra Pradesh**, harvest matured groundnut crop and matured cobs of maize during fair weather / non-rainy period only and store the produce in safe places. Provide adequate drainage facilities in fields of rice, maize, pigeon pea, black gram, green gram, groundnut, turmeric, ginger, vegetables and plantations of banana, coconut and arecanut.

In **Coastal Karnataka**, drain out excess water from fields of rice and plantations of coconut, arecanut and black pepper. In **South Interior Karnataka**, keep the harvested produce of groundnut and maize in dry, covered and ventilated areas or cover with tarpaulins in the fields. Harvest matured crops such as rice, pulses, vegetables, cardamom and coffee during dry intervals and store the harvested produce in well-ventilated and moisture-free places. Make necessary arrangements to drain out excess water from fields of rice, maize, finger millet, pulses, groundnut and vegetables and plantations of banana, black pepper, cardamom, coffee, coconut and arecanut to avoid waterlogging.

In **Andaman and Nicobar Islands**, store the harvested paddy at safe places to avoid their degradation. Make proper arrangements for drainage of excess water from the fields of paddy, vegetable and plantation crops.

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.

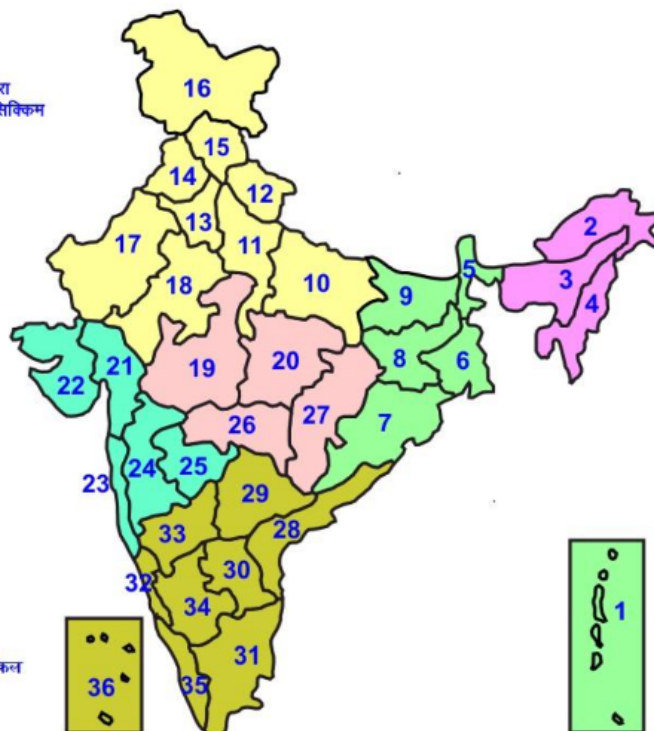
Agromet advisories for likely impact of Thunderstorm / Gusty Winds / Squally Winds

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 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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