



2025-10-21

Time of Issue: 08:53:00 hours IST
(Morning)

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 Tamilnadu during 20th-24th; Lakshadweep and Coastal Karnataka during 21st -24th; North Interior Karnataka during 23rd -24th ; South Interior Karnataka on 21st & 22nd; Kerala & Mahe on 21st; Coastal Andhra Pradesh & Yanam on 21st-26th; Rayalaseema on 21st-25th; Telangana during 23rd -25th with very heavy rainfall over Tamil Nadu during 21st - 23rd; Kerala & Mahe during 22nd - 24th; Coastal Karnataka on 23rd & 24th; South Interior Karnataka during 23rd -25th; Coastal Andhra Pradesh & Yanam and Rayalaseema during 22nd - 25th October.
Strong surface winds (speed reaching 30-40 kmph) likely over South Interior Karnataka on 24th & 25th 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 & 24th -26th October.
Thunderstorm with lightning and gusty winds (speed reaching 30-50 kmph) likely over Odisha and Andaman & Nicobar Islands during 21st-24th with lightning over Madhya Pradesh and Vidarbha during 21st -23rd and Chhattisgarh during 21st -24th October.

West India:

Thunderstorm with lightning likely over Konkan & Goa, Marathawada and Madhya Maharashtra during next 2 days.

North India:

Thunderstorm with lightning likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand and Himachal Pradesh on 21st October.

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Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Tamilnadu Puducherry & Karaikal, Andaman & Nicobar Islands, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka and Kerala & Mahe; **at many places** over Nagaland, Manipur, Mizoram & Tripura, Odisha, Telangana, Chhattisgarh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, East Madhya Pradesh, Rayalaseema and Lakshadweep; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): Tamilnadu puducherry & karaikal: Pamban (dist Ramanathapuram) 11, Karaikal (dist Karaikal), Nagapattinam (dist Nagapattinam) 8 Each.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Heavy rain** at isolated places over Tamilnadu Puducherry & Karaikal
- ❖ **Minimum Temperature Departures (as on 20-10-2025): markedly above normal(> 5.1°C)** at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Bihar and West Uttar Pradesh. **appreciably above normal(3.1°C to 5.0°C)** at few places over Uttarakhand; at isolated places over West Rajasthan and Madhya Maharashtra. **above normal(1.6°C to 3.0°C)** at many places over Chhattisgarh; at most places over Nagaland, Manipur, Mizoram & Tripura; at few places over East Uttar Pradesh, Haryana-Chandigarh-Delhi, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Gujarat Region, Telangana and South Interior Karnataka; at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, Jharkhand, Punjab, Himachal Pradesh, Saurashtra & Kutch, Marathwada, Vidarbha, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over East Rajasthan and West Madhya Pradesh; at most places over Arunachal Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka, North Interior Karnataka and Lakshadweep; at few places over East Madhya Pradesh. **The lowest minimum temperature** of 12.0°C is reported at UNA (HIMACHAL 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).
- ❖ **Maximum Temperature Changes (as on 20-10-2025): Markedly fall at** at isolated places over North Interior Karnataka and Kerala & Mahe. **Appreciable fall at** at isolated places over East Uttar Pradesh, Uttarakhand, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka. **Appreciable rise at** at most places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Jharkhand, Bihar, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Telangana, Rayalaseema, Coastal Karnataka and Lakshadweep.
- ❖ **Minimum Temperature Changes (as on 20-10-2025): markedly fall at** at isolated places over Himachal Pradesh. **Appreciable fall at** at isolated places over Bihar, Saurashtra & Kutch and Vidarbha. **Appreciable rise at** at most places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Jharkhand, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe and Lakshadweep; at few places over Chhattisgarh.

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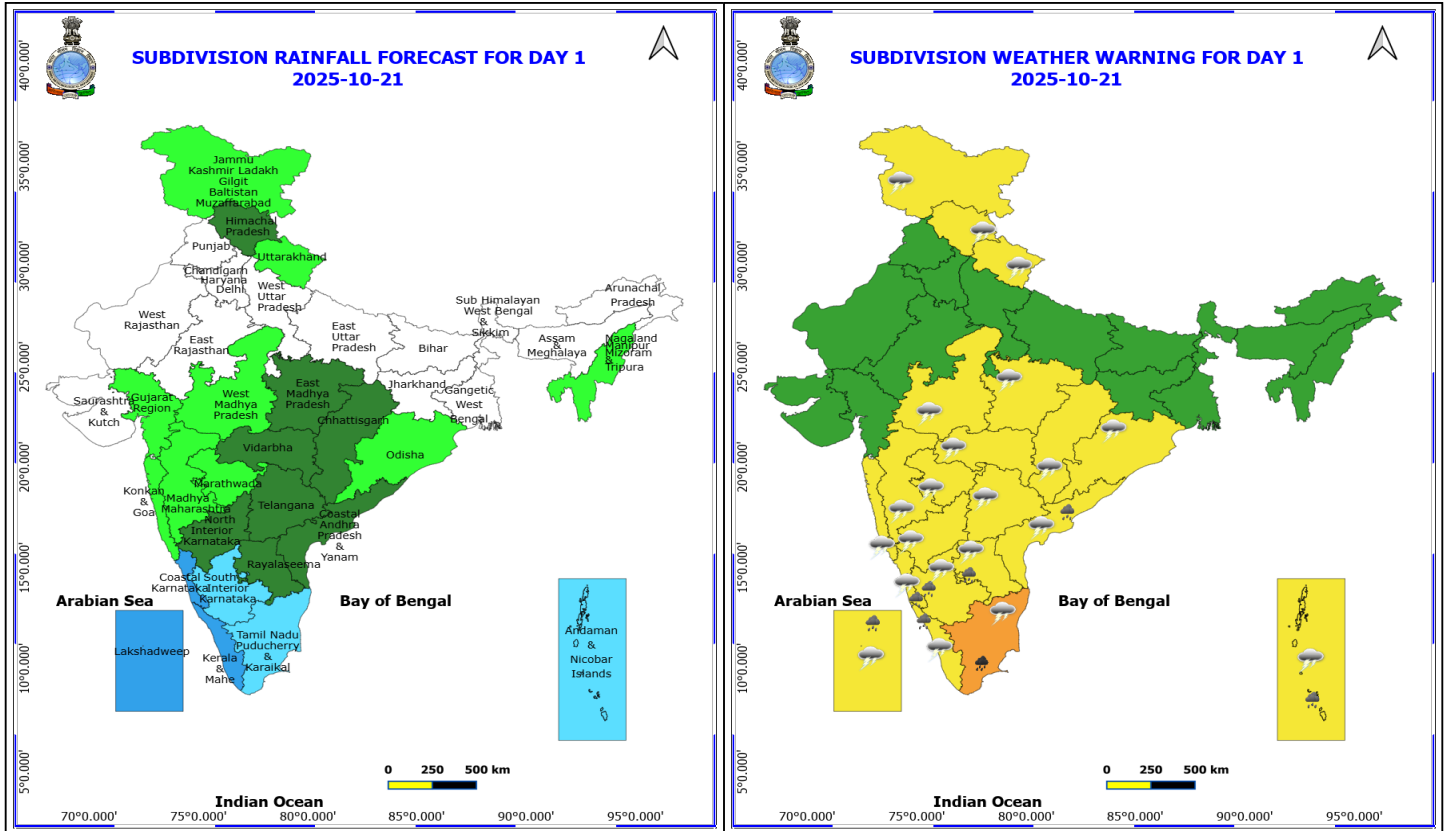
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Meteorological Analysis (Based on 0530 hours IST)

- The **Well marked Low Pressure** area over southeast Arabian Sea persisted over the same region at 0530 hrs IST of today, 21st October 2025. It is likely to move slowly westwards and intensify into a depression during next 24 hours.
- Under the influence of yesterday's upper air **cyclonic circulation** over southeast and adjoining southwest Bay of Bengal a **low pressure** has formed over southwest Bay of Bengal at 0530 hrs IST of today, the 21st October 2025 with the associated **cyclonic circulation** extends upto 7.6km above mean sea level. It is likely to move west-northwestwards and intensify further into a depression over southwest and adjoining westcentral Bay of Bengal during next 36 hours.
- The **upper air cyclonic circulation** over southeast Arabian Sea off Kerala coast extending upto 1.5 km above mean sea level persists.
- 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 across cyclonic circulation over southeast Arabian Sea off Kerala coast at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over northwest Rajasthan & neighbourhood between 1.5 & 3.1 km above mean sea level persists.
- 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 persists.
- The **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 66°E to the north of Lat. 25°N persists.

Weather Outlook for subsequent 3 days

- Fairly widespread to widespread rainfall activity likely over the south peninsular India.
- isolated to scattered rainfall activity likely over Eastern coast, Northeast India and Western Himalayan Region.



21 October (Day 1)

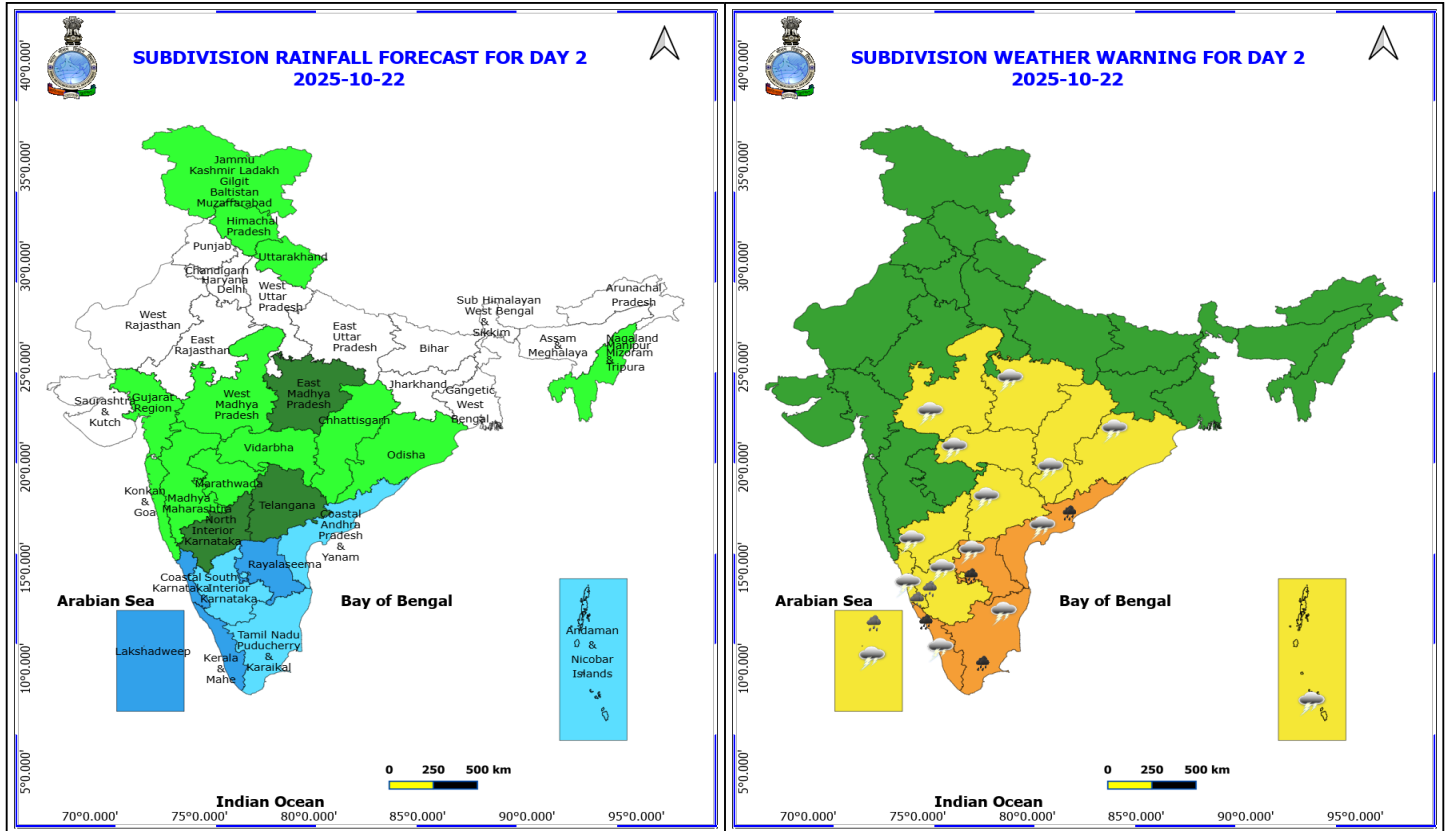
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
 - ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Coastal Karnataka, Kerala & Mahe, Lakshadweep and South Interior Karnataka.
 - ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Interior Karnataka, Kerala & Mahe, Lakshadweep, Odisha and Telangana.
 - ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Chhattisgarh, Coastal Karnataka, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa, Madhya Pradesh, Maharashtra, Tamil Nadu Puducherry & Karaikal and Uttarakhand.
- Squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over Southeast and adjoining Southwest & Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts.
 - Squally weather with wind speed reaching 40-50 gusting to 60 kmph over Southeast and adjoining Southwest & Eastcentral Arabian Sea

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22 October (Day 2)

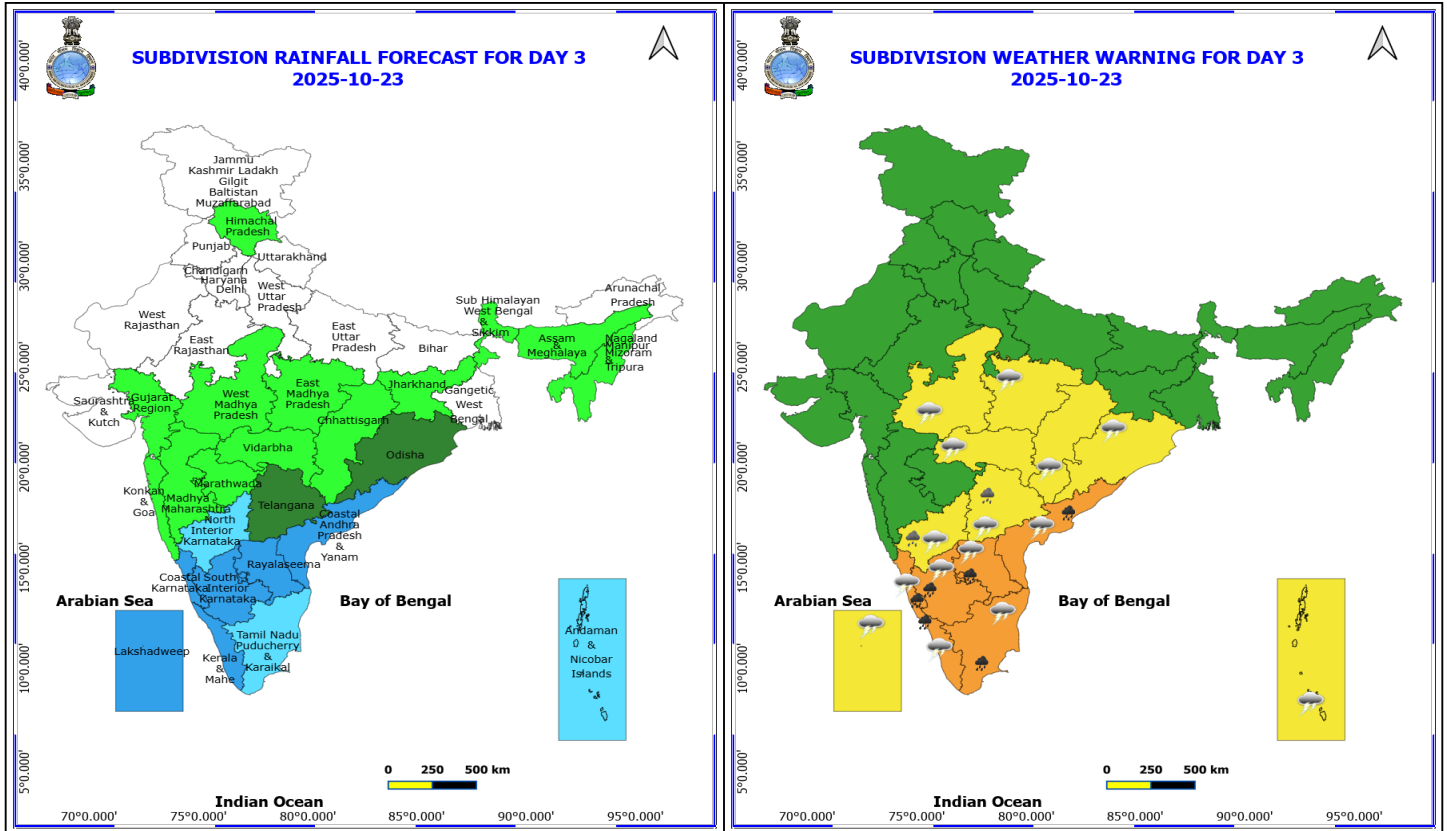
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Coastal Karnataka, Lakshadweep and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & 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 Interior Karnataka, Kerala & Mahe, Lakshadweep, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Chhattisgarh, Coastal Karnataka, Madhya Pradesh, Tamil Nadu Puducherry & Karaikal and Vidarbha.
- Squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over Southeast and adjoining Southwest & Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts.
- Squally weather with wind speed reaching 40-50 gusting to 60 kmph over central parts of south & adjoining central Arabian sea.

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23 October (Day 3)

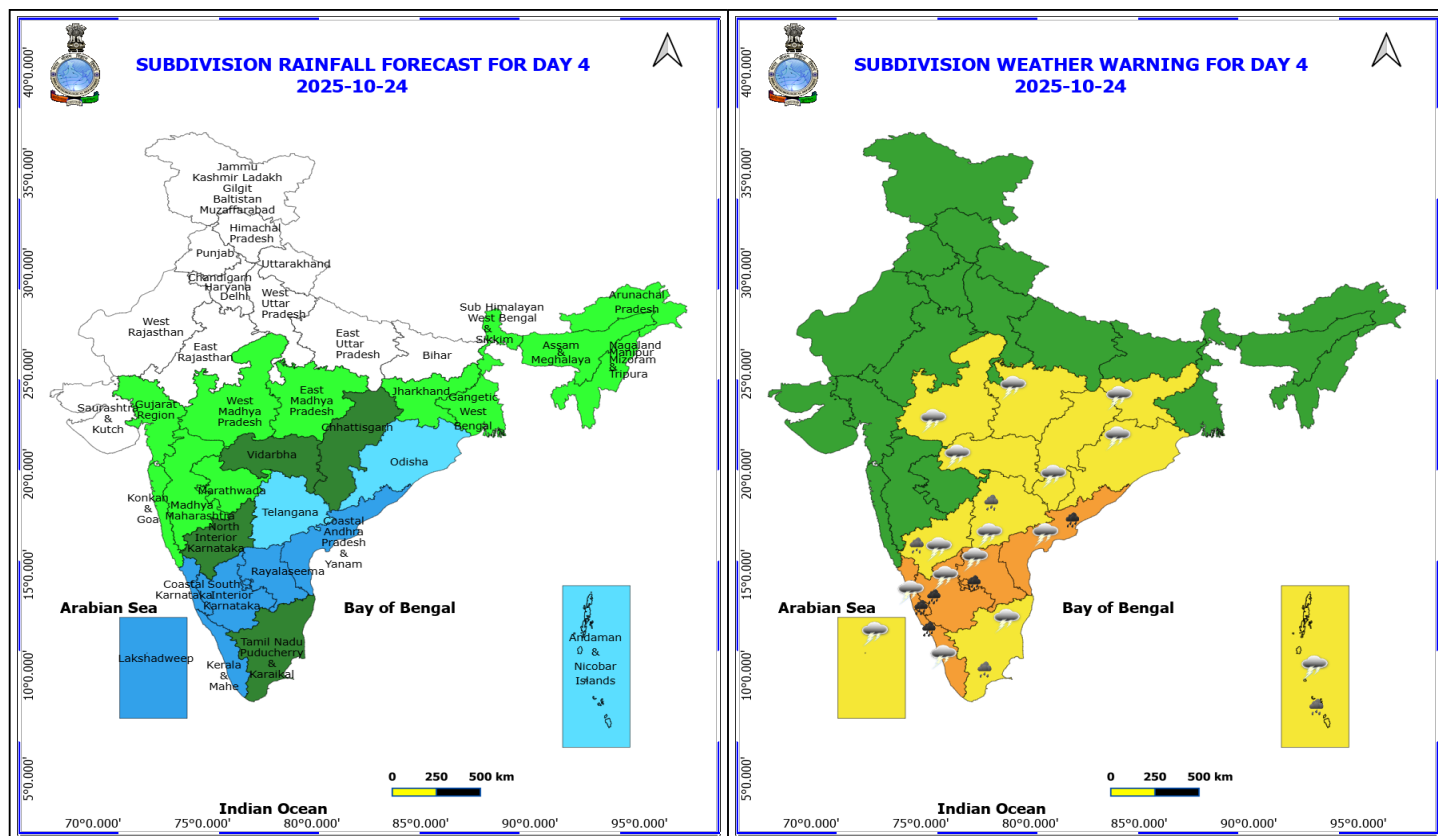
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Coastal Karnataka, Kerala & Mahe, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over North Interior Karnataka and Telangana.
- ❖ **Thunderstorm 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 Interior Karnataka, Kerala & Mahe, Lakshadweep, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Chhattisgarh, Coastal Karnataka, Madhya Pradesh, Tamil Nadu Puducherry & Karaikal and Vidarbha.
- Squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over Southeast and adjoining Southwest & Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts.
- Squally weather with wind speed reaching 40-50 gusting to 60 kmph over central parts of south & adjoining central over southwest & adjoining westcentral Arabian Sea on 22nd & 23rd October.

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24 October (Day 4)

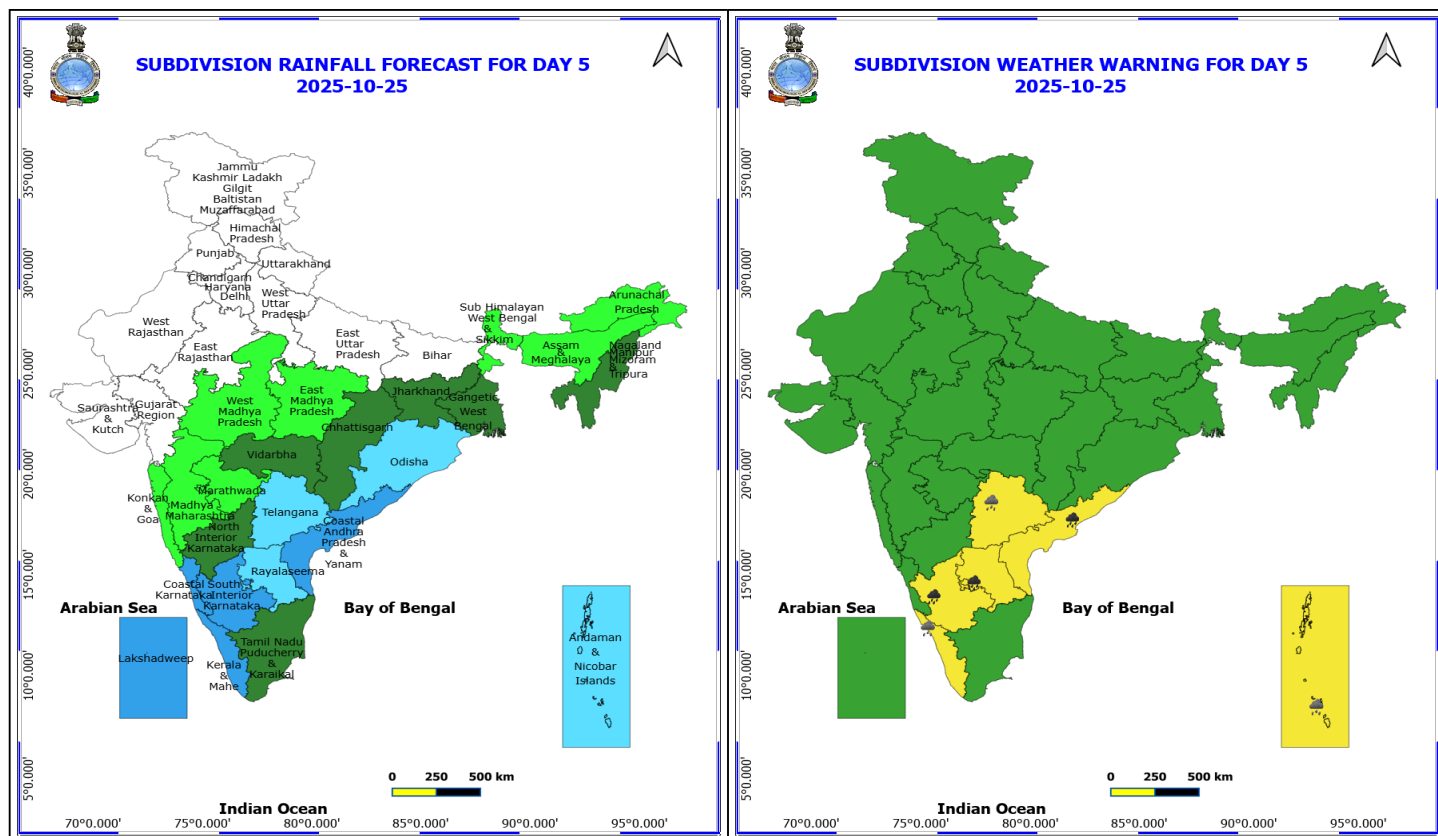
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Andhra Pradesh, Coastal Karnataka, Kerala & Mahe and South Interior Karnataka.
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, North Interior Karnataka, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **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 Interior Karnataka, Kerala & Mahe, Lakshadweep, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Chhattisgarh, Coastal Karnataka, Jharkhand, Madhya Pradesh, Tamil Nadu Puducherry & Karaikal and Vidarbha.
- Squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over Southeast and adjoining Southwest & Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts.
- Squally weather with wind speed reaching 40-50 gusting to 60 kmph over central parts of south & adjoining central over southwest & adjoining westcentral Arabian Sea.

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25 October (Day 5)

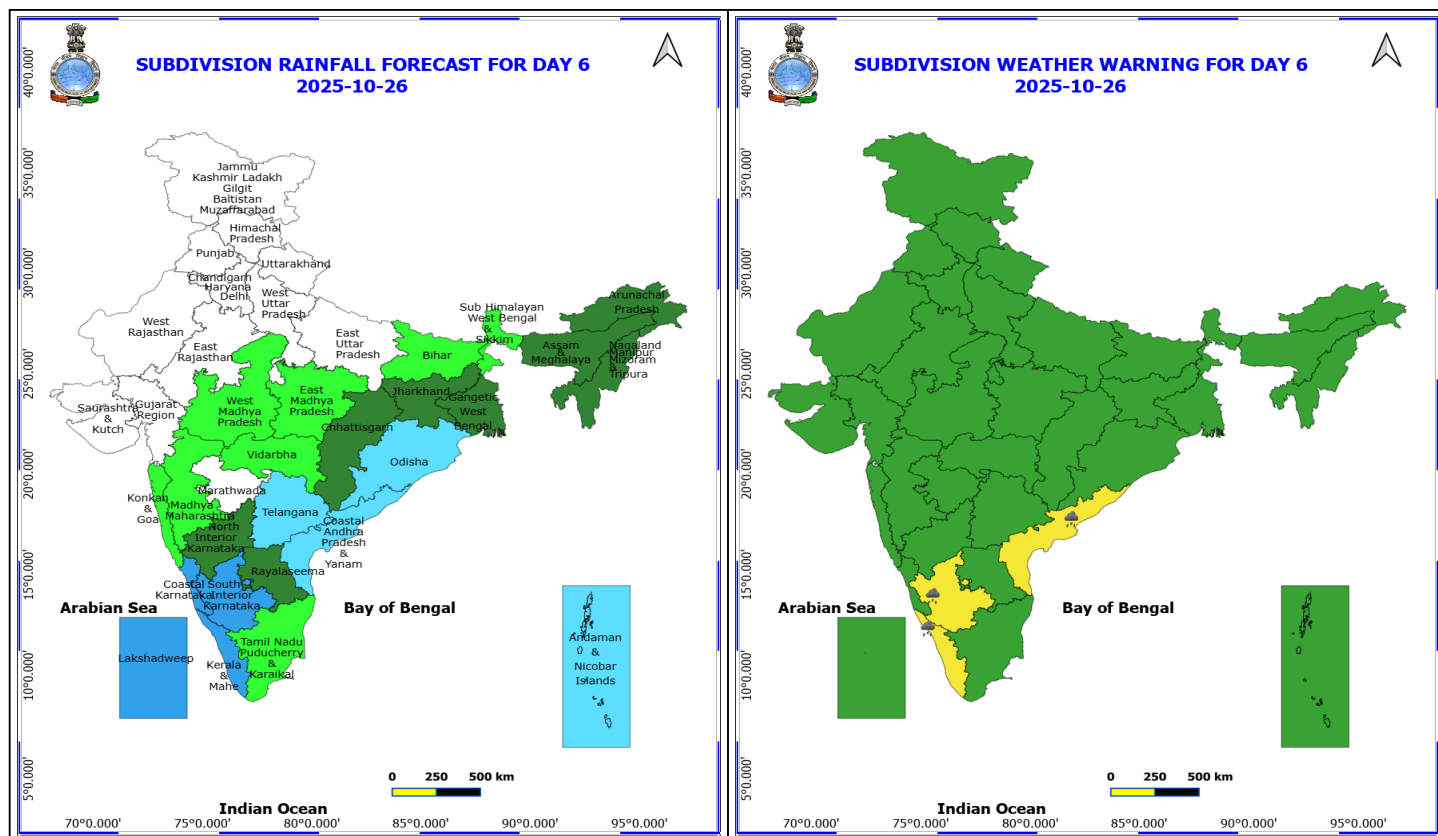
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Andhra Pradesh and South Interior Karnataka.
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Telangana.
- Squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over Southeast and adjoining Southwest & Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts.

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26 October (Day 6)

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

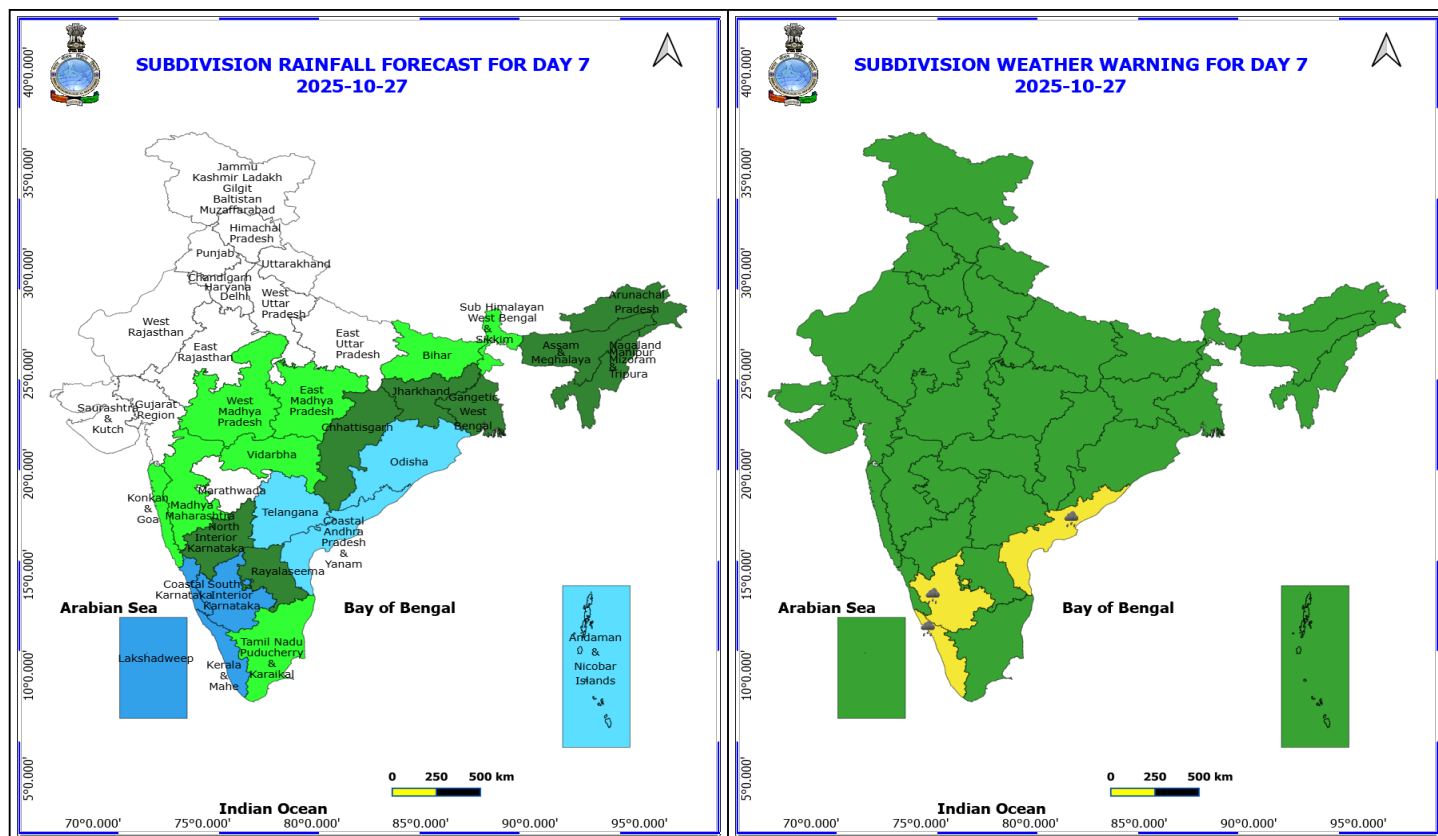
No Fishermen Warning

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27 October (Day 7)

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

No Fishermen Warning

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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	ISOL	SCT	SCT
3	ASSAM & MEHGHALAYA	DRY	DRY	ISOL	ISOL	ISOL	SCT	SCT
4	N. M. M. & T.	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
5	S.H. WEST BENGAL & SIKKIM	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	ISOL	SCT	SCT	SCT
7	ODISHA	ISOL	ISOL	SCT	FWS	FWS	FWS	FWS
8	JHARKHAND	DRY	DRY	ISOL	ISOL	SCT	SCT	SCT
9	BIHAR	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
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	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	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
21	GUJRAT REGION	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
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	DRY	DRY
26	VIDARBHA	SCT	ISOL	ISOL	SCT	SCT	ISOL	ISOL
27	CHATTISGARH	SCT	ISOL	ISOL	SCT	SCT	SCT	SCT
28	COASTAL ANDHRA PRADESH	SCT	FWS	WS	WS	WS	FWS	FWS
29	TELANGANA	SCT	SCT	SCT	FWS	FWS	FWS	FWS
30	RAYALASEEMA	SCT	WS	WS	WS	FWS	SCT	SCT
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

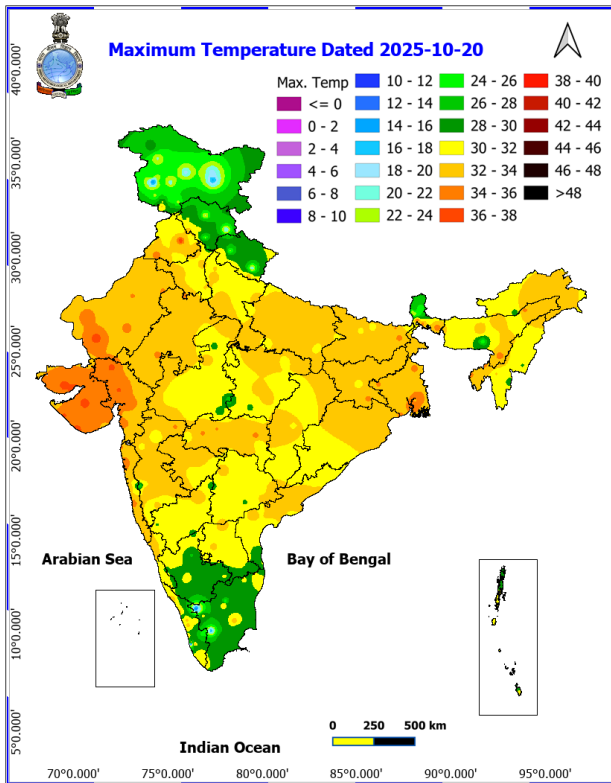


Fig. 2: Departure of Maximum Temp. Dated 2025-10-20

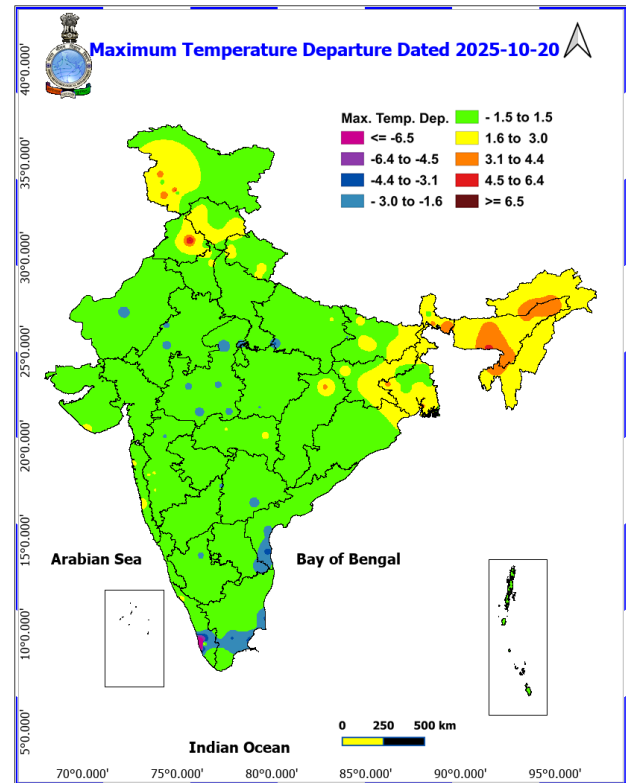


Fig. 3: Minimum Temperatures Dated 2025-10-21

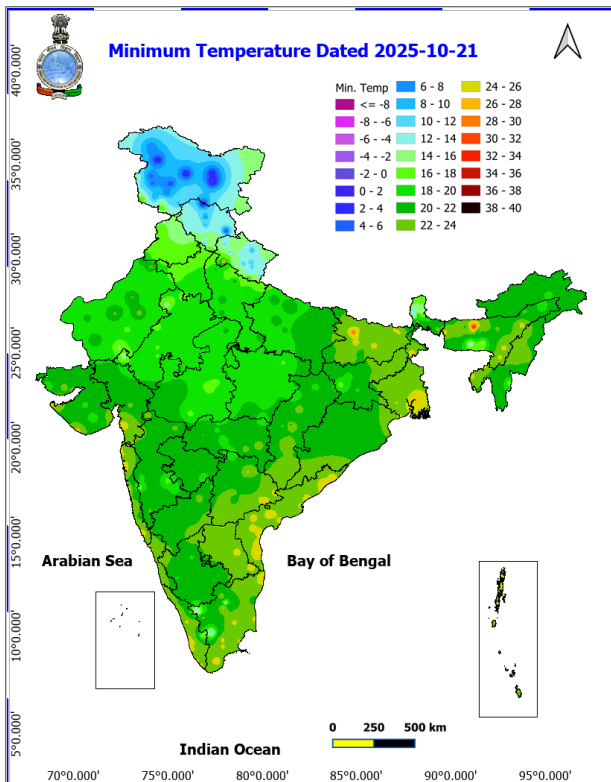
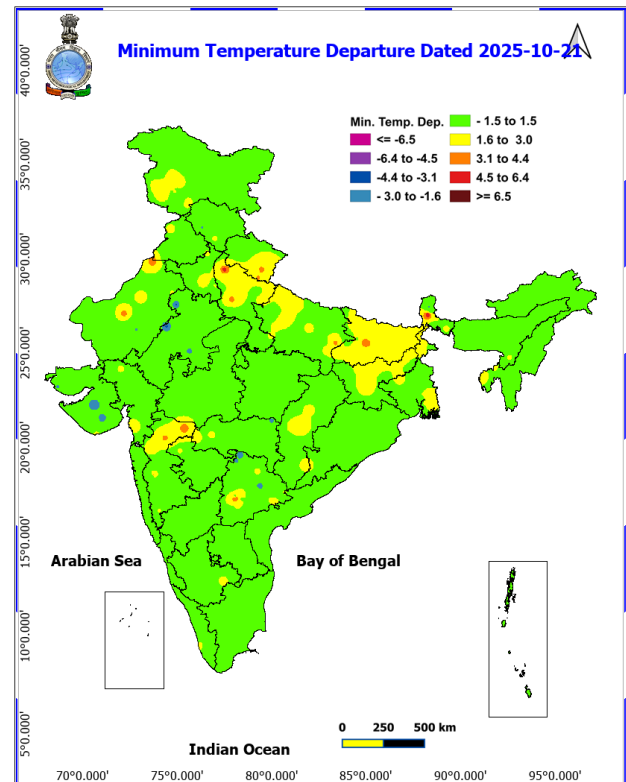
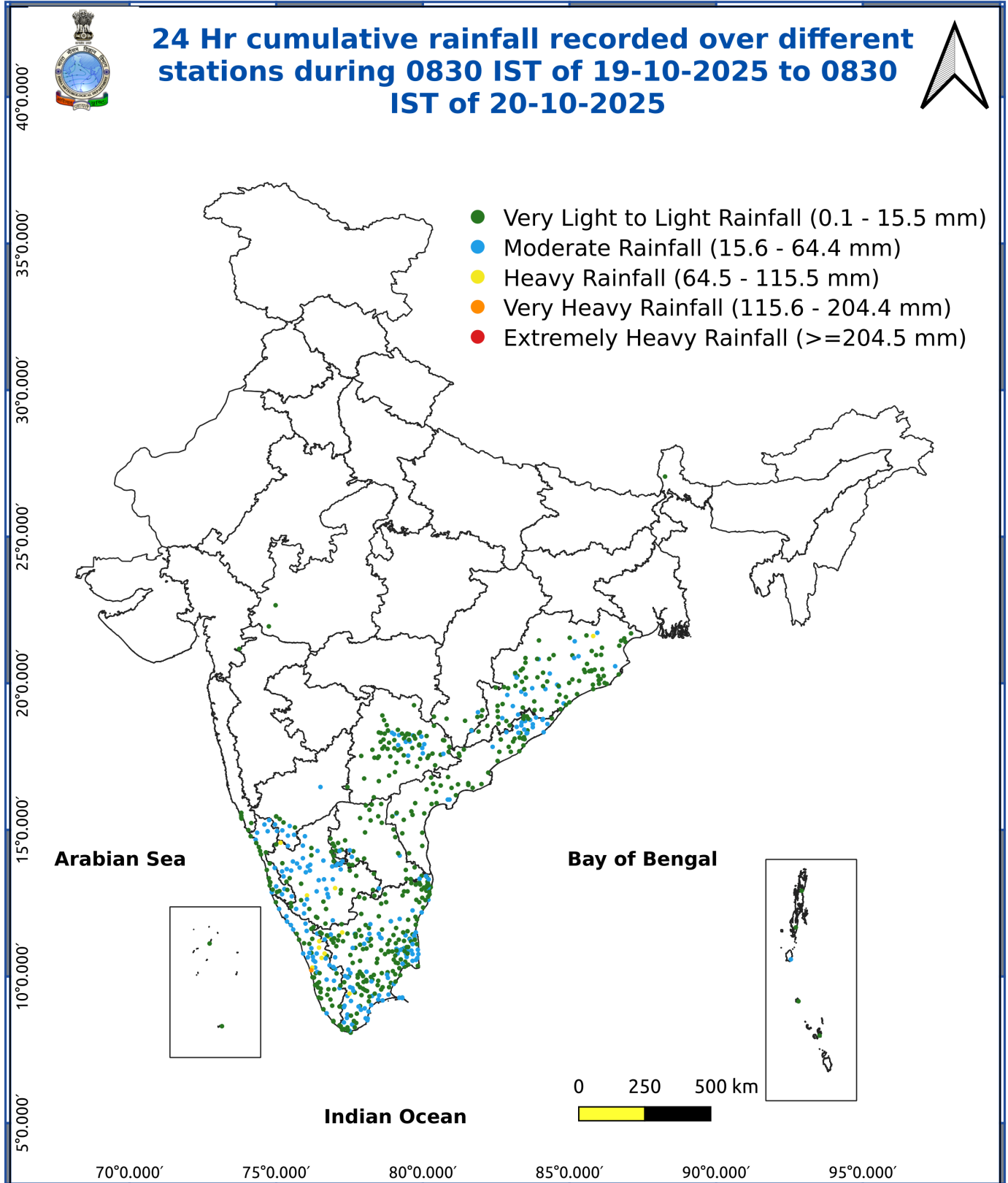


Fig. 4: Departure of Minimum Temp. Dated 2025-10-21





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Impact & Action Suggested due to

Very heavy rainfall over Kerala & Mahe during 22nd -24th; Tamil Nadu and Rayalaseema during 21st -23th; Coastal Karnataka during 22nd - 24th; South Interior Karnataka on 20th and during 23rd & 25th, Coastal Andhra Pradesh & Yanam and Rayalaseema during 22nd -25th 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/landslides/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.

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.

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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 & abbreviations:

Region wise classification of meteorological Sub-Divisions:

Northwest India: Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.

Central India: West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.

East India: Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.

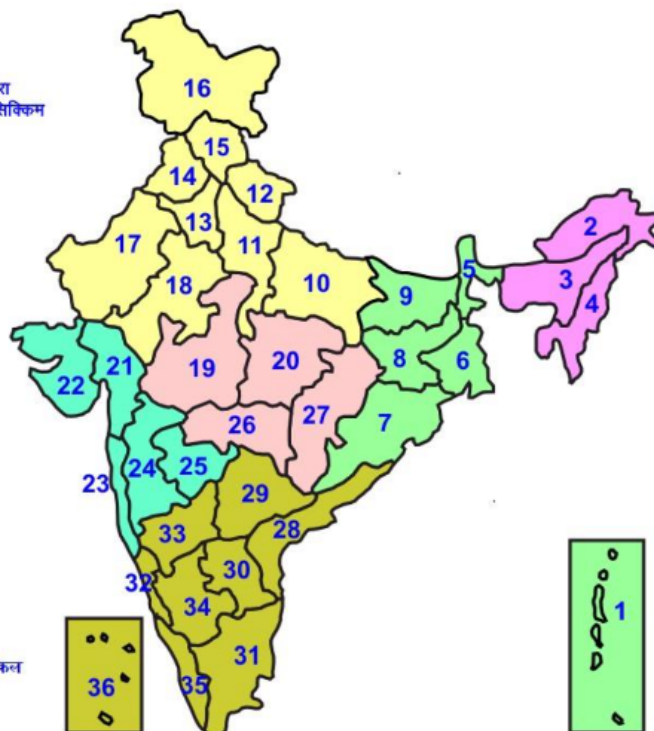
Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.

South India: Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

Subdivision Colour

- NO WARNING
- WATCH (BE UPDATED)
- ALERT (BE PREPARED TO TAKE ACTION)
- WARNING (TAKE ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

-  Heavy Rain

 Thunderstorm & Lightning

 Strong surface winds

 Cold Wave

 Hot & Humid

 Very Heavy Rain

 Hailstorm

 Heat Wave

 Cold Day

 Extremely Heavy Rain

 Dust Storm

 Hot Day

 Ground Frost

 Heavy Snow

 Dust Raising Winds

 Warm Night

 Fog

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

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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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