

2025-11-24

Time of Issue: 13:43:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings:

- **Heavy rainfall** likely over Tamil Nadu during 25th-27th; Kerala & Mahe during 24th-26th, Lakshadweep on 24th, Andaman & Nicobar Islands during 25th and 29th, Coastal Andhra Pradesh & Yanam on 29th November with **very heavy rainfall over Tamil Nadu on 24th & 28th-30th, Andaman & Nicobar Islands during 26th-28th, Coastal Andhra Pradesh & Yanam on 30th November.**
- **Thunderstorm with lightning** very likely over Tamil Nadu during 24th-28th, Kerala & Mahe during 24th-26th, Lakshadweep on 24th, Coastal Andhra Pradesh & Yanam on 27th & 28th November and over Andaman & Nicobar Islands with **gusty wind speeds reaching 40-50 kmph** during the next 6 days.

Forecast of temperature and cold wave & cold day warnings:

- Gradual fall in minimum temperature likely by 2-3⁰ C over many parts of northwest India during next 3 days and no significant change thereafter.
- No significant change in the minimum temperature likely over Central India during next 2 days and Gradual fall by 2-3⁰ C during subsequent 3 days and no significant change thereafter.
- No significant change in the minimum temperature likely over rest part of the country during next 5 days.

Dense Fog Warnings:

- **Dense fog conditions** very likely to prevail during night/early morning hours in isolated pockets of northwestern parts of West Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 25th November

Fishermen Warning:

Fishermen are advised not to venture into

- (a) South Andaman Sea till 27th.
- (b) Southeast Bay of Bengal during 25th to 28th.
- (c) Southwest Bay of Bengal, Gulf of Mannar, Comorin area and along & off Tamil Nadu, Puducherry & Sri Lanka coasts till 29th November
- (d) Adjoining areas of westcentral Bay of Bengal and along & off Andhra Pradesh coast from 27th to 30th November
- (e) Adjoining areas of Southeast Arabian Sea, Lakshadweep, Maldives and along & off Kerala coast during 24th to 27th November.

Those out at sea should avoid South Andaman Sea till 27th, Southeast Bay of Bengal during 25th to 28th, southwest Bay of Bengal till 29th and westcentral Bay of Bengal during 27th to 30th November.

The fishermen along & off Andhra Pradesh coast should return to coast before 28th November.

Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep; **at a few places** over Arunachal Pradesh, Rayalaseema and Coastal Karnataka; **at isolated places** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and South 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:** Oothu (dist Tirunelveli) 23; Nalumukku (dist Tirunelveli) 22; Sethiathope (dist Cuddalore), Kakkachi (dist Tirunelveli) 21 Each; Manjolai (dist Tirunelveli) 19; Chidambaram (dist Cuddalore), Parangipettai (dist Cuddalore), Madukkur (dist Thanjavur), Bhuvanagiri (dist Cuddalore), Thirukuvalai (dist Nagapattinam) 14 Each; Nagapattinam (dist Nagapattinam), Thalaigayner (dist Nagapattinam), Vettikadu (dist Thanjavur) 13 Each; Orthanad (dist Thanjavur), Chidambaram AWS (dist Cuddalore), Annamalai Nagar (dist Cuddalore), Vadakuthu (dist Cuddalore), Velankanni (dist Nagapattinam) 12 Each; Thiruthuraiipoondi (dist Tiruvarur), Neyveli AWS (dist Cuddalore), Ayyampettai (dist Thanjavur) 11 Each; Pattukottai (dist Thanjavur), Needamangalam (dist Tiruvarur), Sivakasi (dist Virudhunagar), Tirupoondi (dist Nagapattinam), Kothavacherry (dist Cuddalore), Dscl Kalayanallur (dist Kallakurichi), Neivasal Thenpathi (dist Thanjavur), Gadana Dam (dist Tenkasi) 10 Each; Srimushnam (dist Cuddalore), Tondi (dist Ramanathapuram), Sivaganga (dist Sivaganga), Thanjavur (dist Thanjavur), Mannargudi (dist Tiruvarur), Tiruchendur (dist Toothukudi), Aduthurai AWS (dist Thanjavur), Tiruvarur AWS (dist Tiruvarur), Kurinjipadi (dist Cuddalore), Kadambur (dist Toothukudi), Kayalpattinam (dist Toothukudi), Kurungulam (dist Thanjavur), Modakkurichi (dist Erode), Kannadaian Anicut (dist Tirunelveli) 9 Each; Kollidam (dist Mayiladuthurai), Jayamkondam (dist Ariyalur), Alangudi (dist Pudukkottai), Gandarvakottai (dist Pudukkottai), R.s.mangalam (dist Ramanathapuram), Ambasamudram (dist Tirunelveli), Nannilam (dist Tiruvarur), Kalugumalai (dist Toothukudi), Tuticorin (dist Toothukudi), Madurai South (dist Madurai), Papanasam (dist Tirunelveli), Kallakurichi ARG (dist Kallakurichi), Tuticorin Rly ARG (dist Toothukudi), Kulasekarapattinam (dist Toothukudi), Lalpet (dist Cuddalore), Kodiayakarai (dist Nagapattinam), Ayinkudi (dist Pudukkottai), Echanviduthi (dist Thanjavur), Vedanatham (dist Toothukudi) 8 Each; K.m.koil (dist Cuddalore), Kamatchipuram (dist Dindigul), Sirkali (dist Mayiladuthurai), Vedaranyam (dist Nagapattinam), Kamudhi (dist Ramanathapuram), Devakottai (dist Sivaganga), Tirupuvanam (dist Sivaganga), Thiruvidaimaruthur (dist Thanjavur), Tiruvaiyaru (dist Thanjavur), Ayikudi (dist Tenkasi), Manimutharu (dist Tirunelveli), Sivagiri (dist Tenkasi), Tiruvarur (dist Tiruvarur), Valangaiman (dist Tiruvarur), Ottapadiram (dist Toothukudi), Kallakurichi (dist Kallakurichi), Thanjavur PTO (dist Thanjavur), Tuticorin Airport ARG (dist Toothukudi), Annavasal (dist Pudukkottai), Avudayarkoil (dist Pudukkottai), Ponnamaravathi (dist Pudukkottai), Malaiyur (dist Pudukkottai), Lower Anaicut (dist Thanjavur), Suthamalli Dam (dist Ariyalur), Manimutharu Dam PWD (dist Kallakurichi), Madurai North (dist Madurai), Pwd Travellers Bungalow (dist Sivaganga), Servalar Dam (dist Tirunelveli) 7 Each; **Lakshadweep:** Minicoy (dist Lakshadweep) 11; **Kerala & Mahe:** Kochi IAF (dist Ernakulam) 10; Ernakulam South (dist Ernakulam) 8.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Extremely heavy rain** at isolated places over Tamil Nadu, Puducherry & Karaikal. **Heavy to very heavy rain** at isolated places over Tamil Nadu, Puducherry & Karaikal. **Heavy rain** at a few places over Lakshadweep and at isolated places over Kerala & Mahe.

❖ **Fog Condition Observed (at 0830 hours of today): Dense fog conditions:** at isolated places over Tamilnadu Puducherry & Karaikal **Moderate fog conditions:** at isolated places over Assam & Meghalaya, Odisha and East Uttar Pradesh **Shallow fog conditions:** at a few places over Haryana Chandigarh & Delhi and Punjab, at isolated places over Nagaland, Manipur, Mizoram & Tripura, Bihar, East Uttar Pradesh, West Uttar Pradesh, Himachal Pradesh, East Madhya Pradesh, Saurashtra & Kutch and Chhattisgarh

❖ **Visibility reported (at 0830 hours of today):** West Uttar Pradesh: Bulandshahr (dist Bulandshahr) , Aligarh (dist Aligarh) 500.0; Odisha: Sundargarh (dist Sundargarh), Bolangir, Titlagarh (dist Balangir), Koraput (dist Koraput), Chhatrapur (dist Ganjam), Rayagada-obs (dist Rayagada), Boudh (dist Boudh), Malkangiri-obs (dist Malkangiri), Paralakhemundi-obs (dist Gajapati) Each, Rourkela (dist Sundargarh) 200.0; Tamilnadu Puducherry & Karaikal: Kodaikanal (dist Dindigul) 50.0; Assam & Meghalaya: Barapani/shillong (dist East Khasi Hills) 200.0; East Uttar Pradesh: Kanpur Airforce (dist Kanpur Nagar) 200.0, Varanasi (babatpur) AP (dist Varanasi), Fursatganj (dist Amethi), Ballia-obs2 (dist Ballia), Azamgarh-obs (dist Azamgarh) 500.0 Each; Nagaland, Manipur, Mizoram & Tripura: Kailashahar AP (dist Unakoti) 500.0; Bihar: Supaul (dist Supaul) 500.0; East Madhya Pradesh: Rewa (dist Rewa) 500.0; Haryana Chandigarh & Delhi: New Delhi (safdarjung), New Delhi (palam) AP (dist South West Delhi) 500.0

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Each; Punjab: Patiala (dist Patiala), Ludhiana (dist Ludhiana) 500.0 Each; Himachal Pradesh: Mandi (dist Mandi) 500.0; Saurashtra & Kutch: Daman (dist Daman) 500.0; Chhattisgarh: Ambikapur (dist Surguja) 500.0;.

❖ **Minimum Temperature Departures (as on 24-11-2025):** below normal(-1.6°C to -3.0°C) at many places over Uttarakhand. The lowest minimum temperature of 7.4°C is reported at Hissar (Haryana) over the plains of India.

❖ **Maximum Temperature Departures (as on 23-11-2025):** The highest maximum temperature of 35.8°C is reported at KARWAR (KARNATAKA).

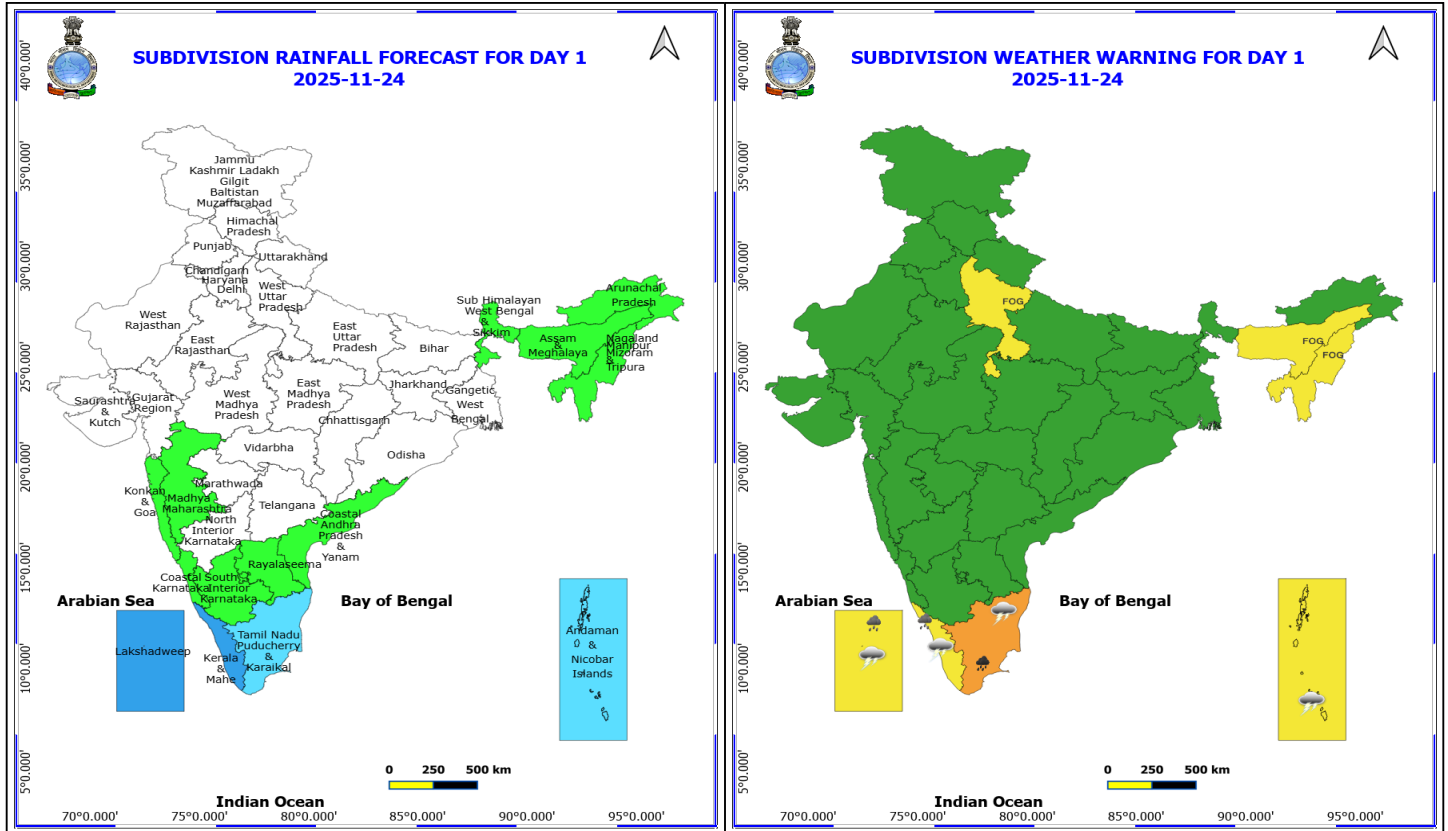


Meteorological Analysis (Based on 0830 hours IST)

- The **well marked low pressure** area over Strait of Malacca and adjoining south Andaman Sea lay over Malaysia and adjoining Strait of Malacca at 0830 hours IST of today, the 24th November, 2025. The associated cyclonic circulation extended upto 7.6 km above mean sea level. It is very likely to move west-northwestwards and intensify into a **depression** over south Andaman Sea during next 24 hours. Continuing to move west-northwestwards, it is very likely to intensify further into a cyclonic storm over south Bay of Bengal during subsequent 48 hours.
- The **upper air cyclonic circulation** over Comorin area and neighbourhood extending upto 5.8 km above mean sea level persisted over the same region at 0830 hours IST of today, the 24th November, 2025. Under its influence, a **low-pressure area** is likely to form over Comorin and adjoining areas of southwest Bay of Bengal & Sri Lanka around 25th November. It is likely to become more marked thereafter.
- The **cyclonic circulation** over southeast Arabian Sea extending upto 3.1 km above mean sea level persisted over the same region at 0830 hours IST of today, the 24th November, 2025.
- The **upper air cyclonic circulation** over east Bangladesh & neighbourhood at 1.5 km above mean sea level has become less marked.
- The **upper air cyclonic circulation** over northeast Assam & neighbourhood at 3.1 km above mean sea level has become less marked.

Weather Outlook for subsequent 3 days

- Fairly widespread to widespread rainfall activity likely over North Tamil Nadu, Coastal Andhra Pradesh, Kerala and Andaman & Nicobar Islands.
- Isolated to Scattered rainfall activity over Coastal Karnataka and South Interior Karnataka.



24 November (Day 1)

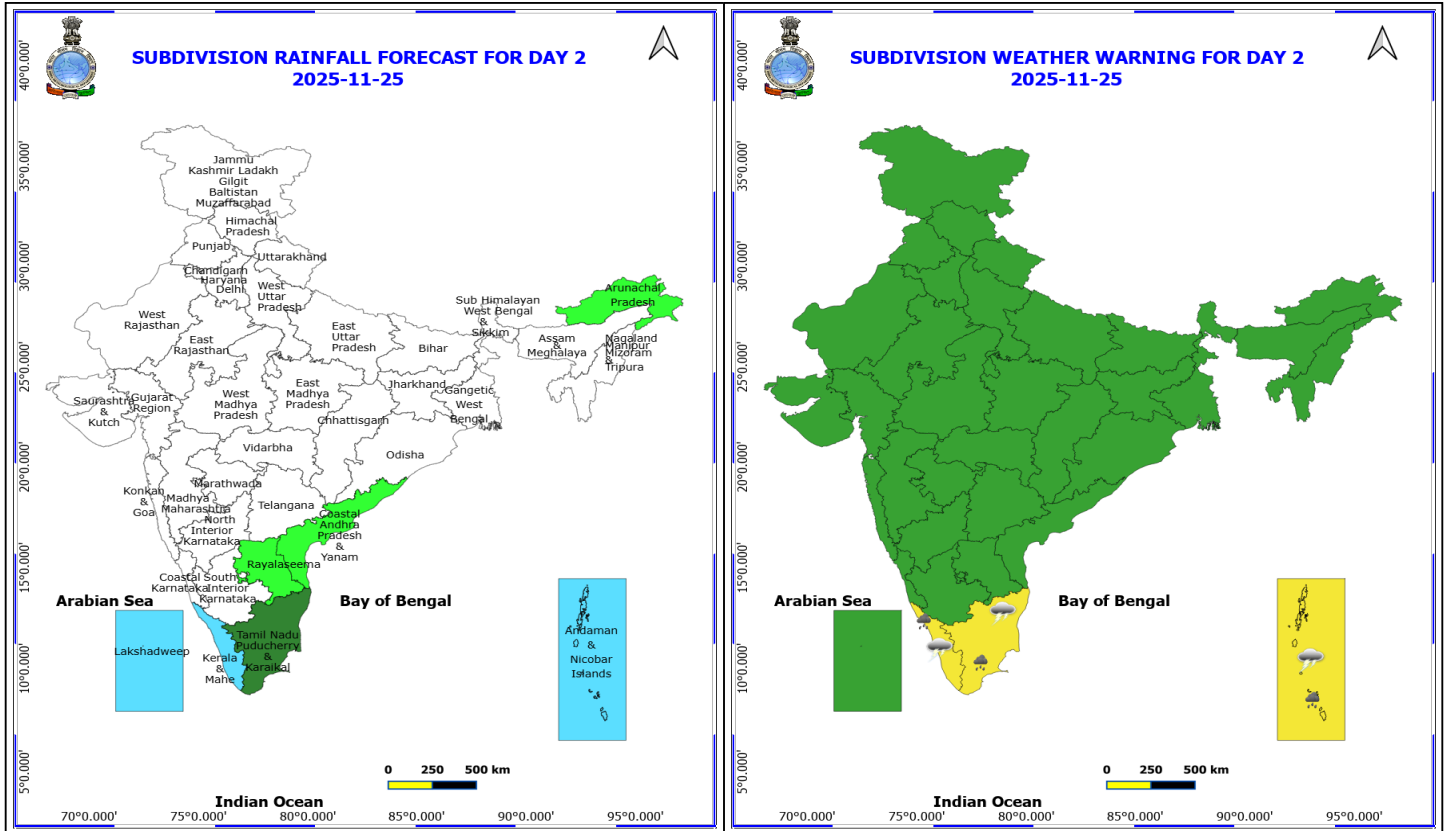
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Lakshadweep.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe and Lakshadweep.
- ❖ **Dense Fog** very likely at isolated pockets over Assam & Meghalaya, Nagaland, Manipur, Mizoram and Tripura and North-West Uttar Pradesh.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph will prevail along and off Kerala coast, over Lakshadweep, Comorin areas, over Gulf of Mannar, along and off Tamil Nadu and Sri Lanka coasts, over Andaman Sea, over south Bay of Bengal.
- ❖ Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph will prevail over south Andaman Sea.

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25 November (Day 2)

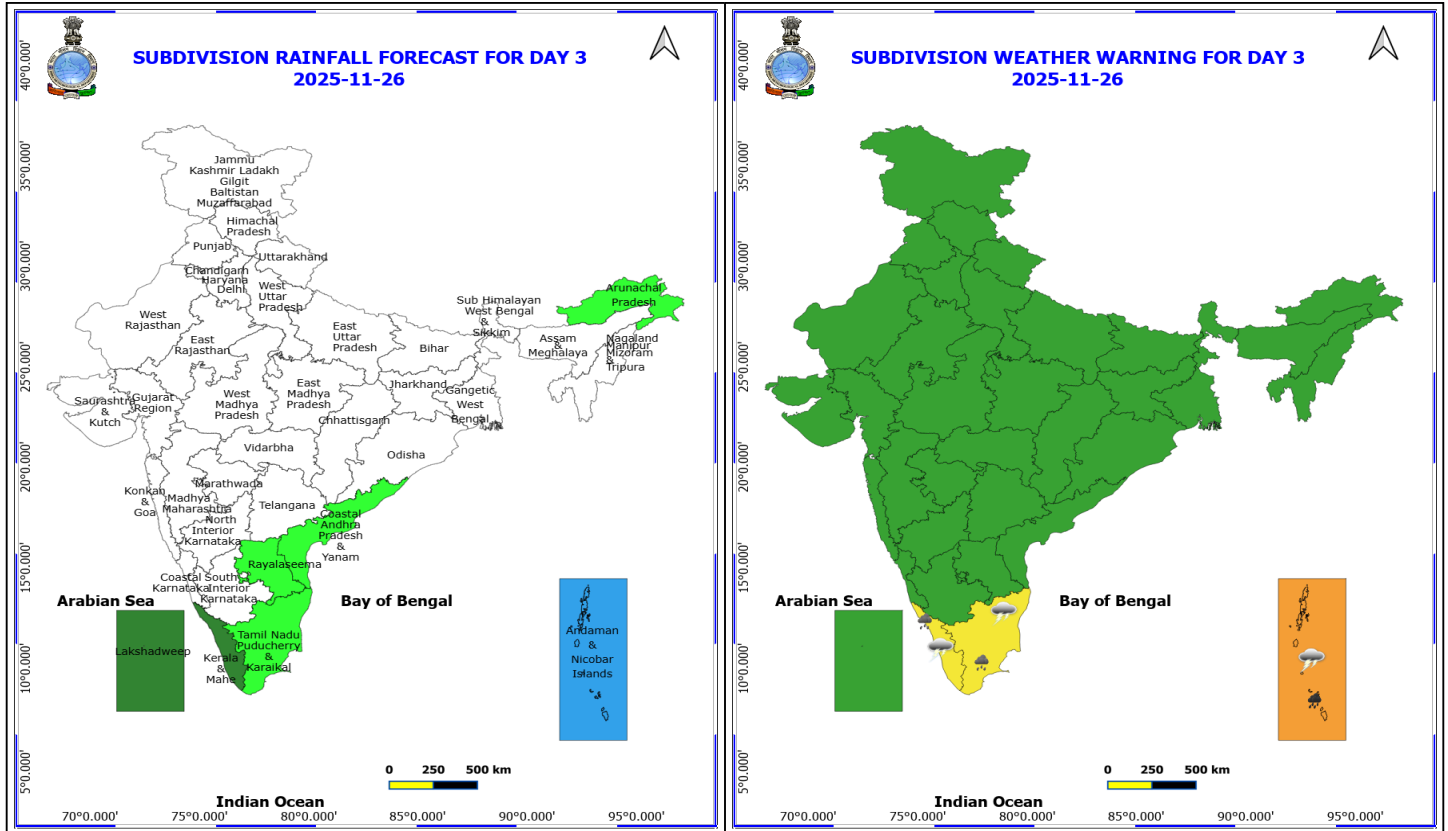
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph will prevail over Andaman Sea, over south Bay of Bengal & adjoining central Bay of Bengal, along and off Tamil Nadu and Sri Lanka coasts, over Gulf of Mannar & adjoining Comorin area.
- ❖ Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph will prevail over south Andaman Sea and adjoining, some parts of southeast Bay of Bengal.

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26 November (Day 3)

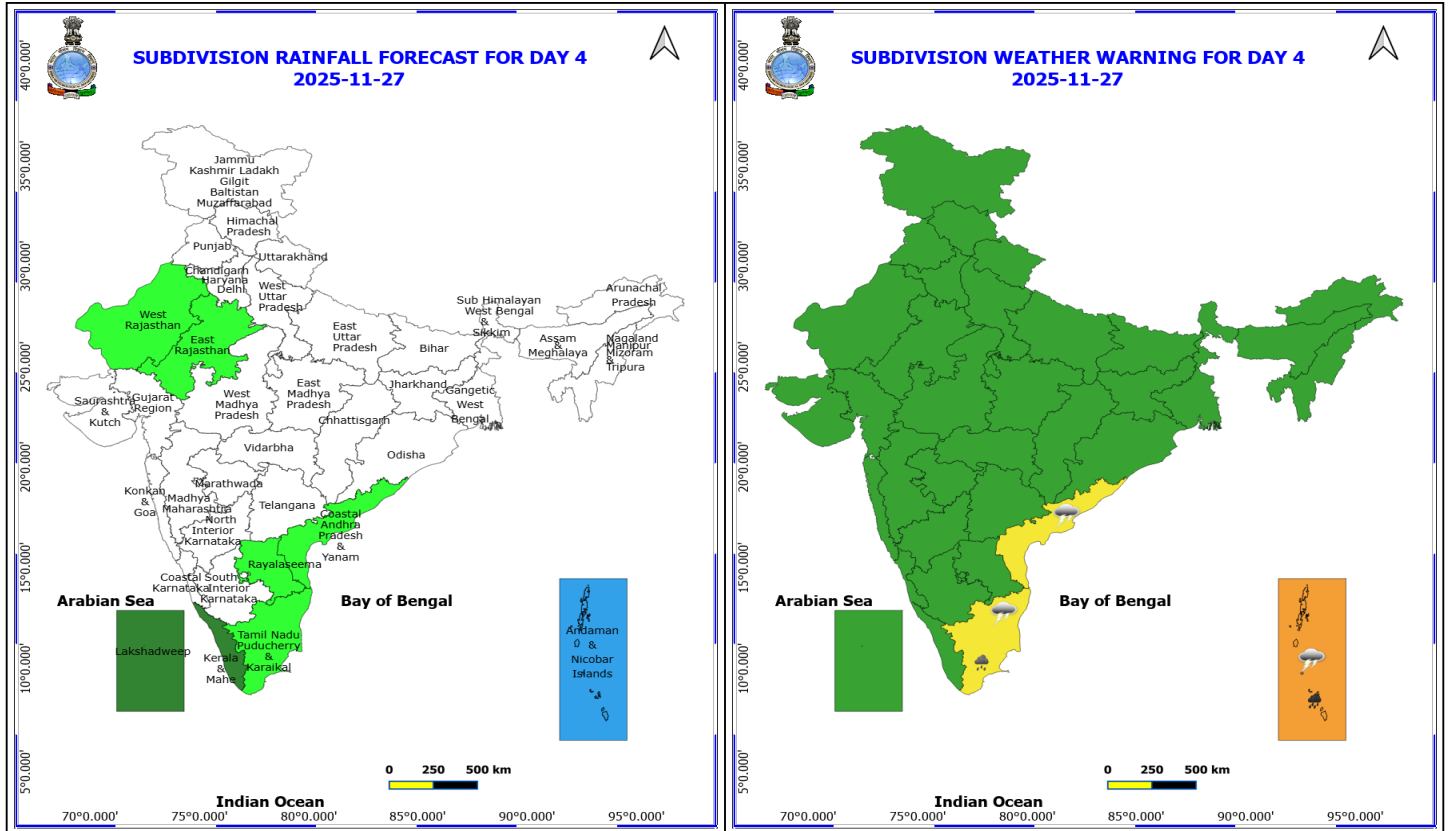
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph will prevail over Andaman Sea, over south Bay of Bengal & adjoining central Bay of Bengal, along and off Tamil Nadu & Sri Lanka coasts, over Gulf of Mannar & adjoining Comorin area.
- ❖ Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph will prevail over south & adjoining north Andaman Sea, over many parts of southeast Bay of Bengal and adjoining, few parts of southwest Bay of Bengal.
- ❖ Squally winds with speeds reaching 55 kmph to 65 kmph gusting to 75 kmph will prevail over some parts of southeast Bay of Bengal and adjoining south Andaman Sea.
- ❖ Gale winds with speeds reaching 60 kmph to 80 kmph gusting to 90 kmph will prevail over southeast Bay of Bengal adjoining south Andaman Sea.

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27 November (Day 4)

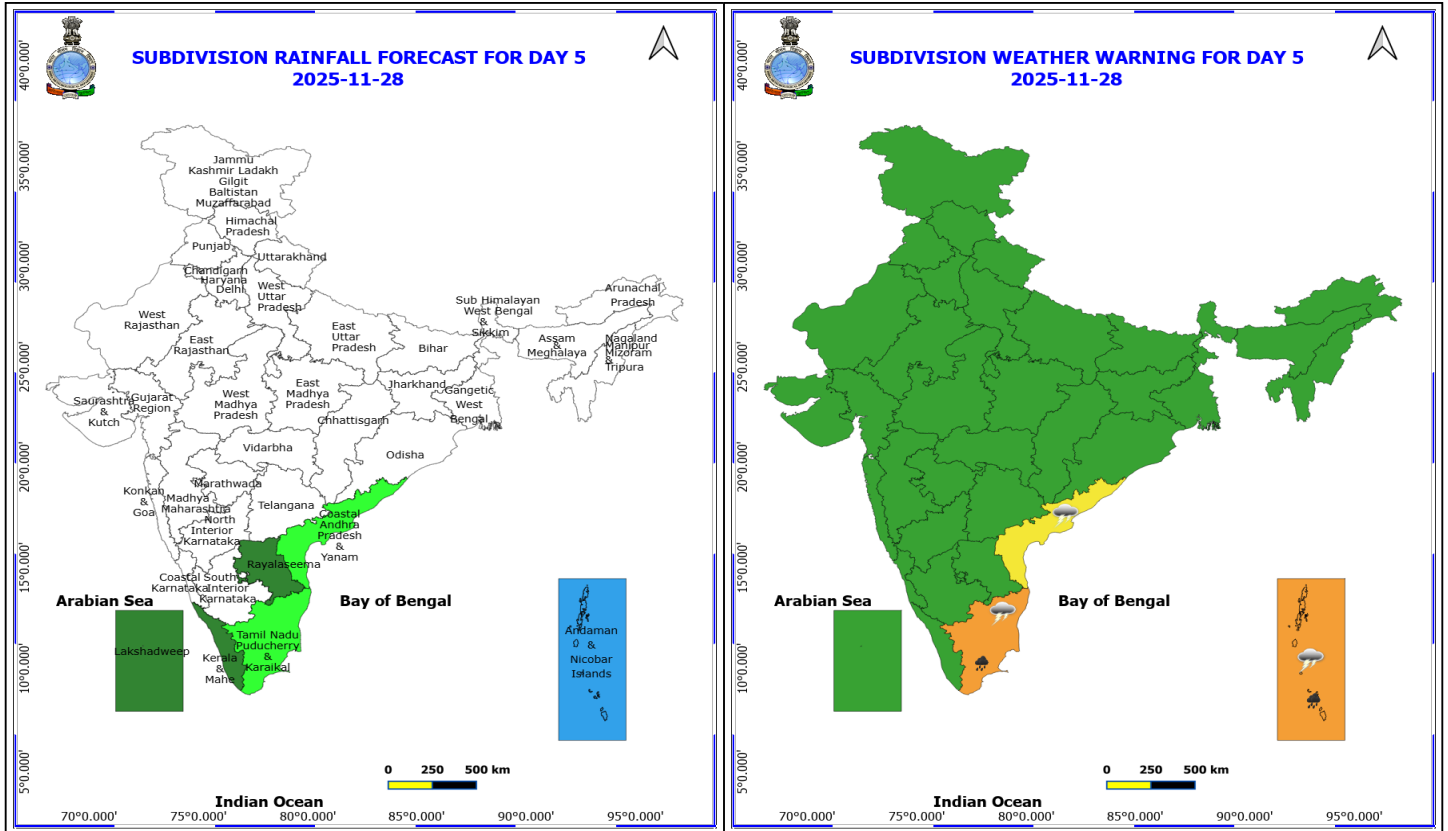
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Heavy Rainfall** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Coastal Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph will prevail over Andaman Sea, over south Bay of Bengal & adjoining central Bay of Bengal, along and off Tamil Nadu & Sri Lanka coasts, over Gulf of Mannar & adjoining Comorin area.
- ❖ Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph will prevail over south & adjoining north Andaman Sea, over many parts of southeast Bay of Bengal and adjoining, few parts of southwest Bay of Bengal.
- ❖ Squally winds with speeds reaching 55 kmph to 65 kmph gusting to 75 kmph will prevail over some parts of southeast Bay of Bengal and adjoining south Andaman Sea.
- ❖ Gale winds with speeds reaching 60 kmph to 80 kmph gusting to 90 kmph will prevail over southeast Bay of Bengal adjoining south Andaman Sea.

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28 November (Day 5)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Coastal Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.

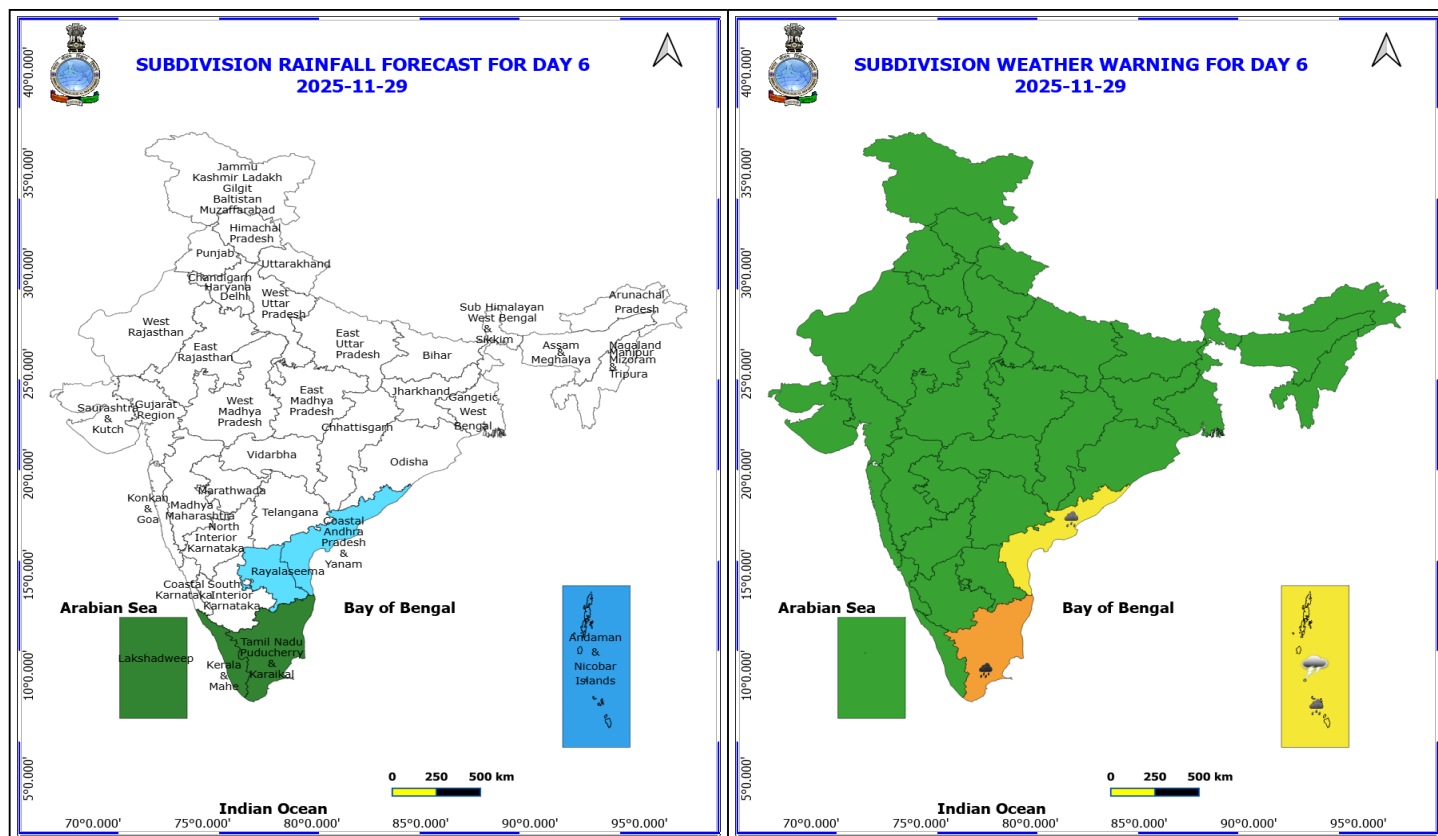
No Fishermen Warning

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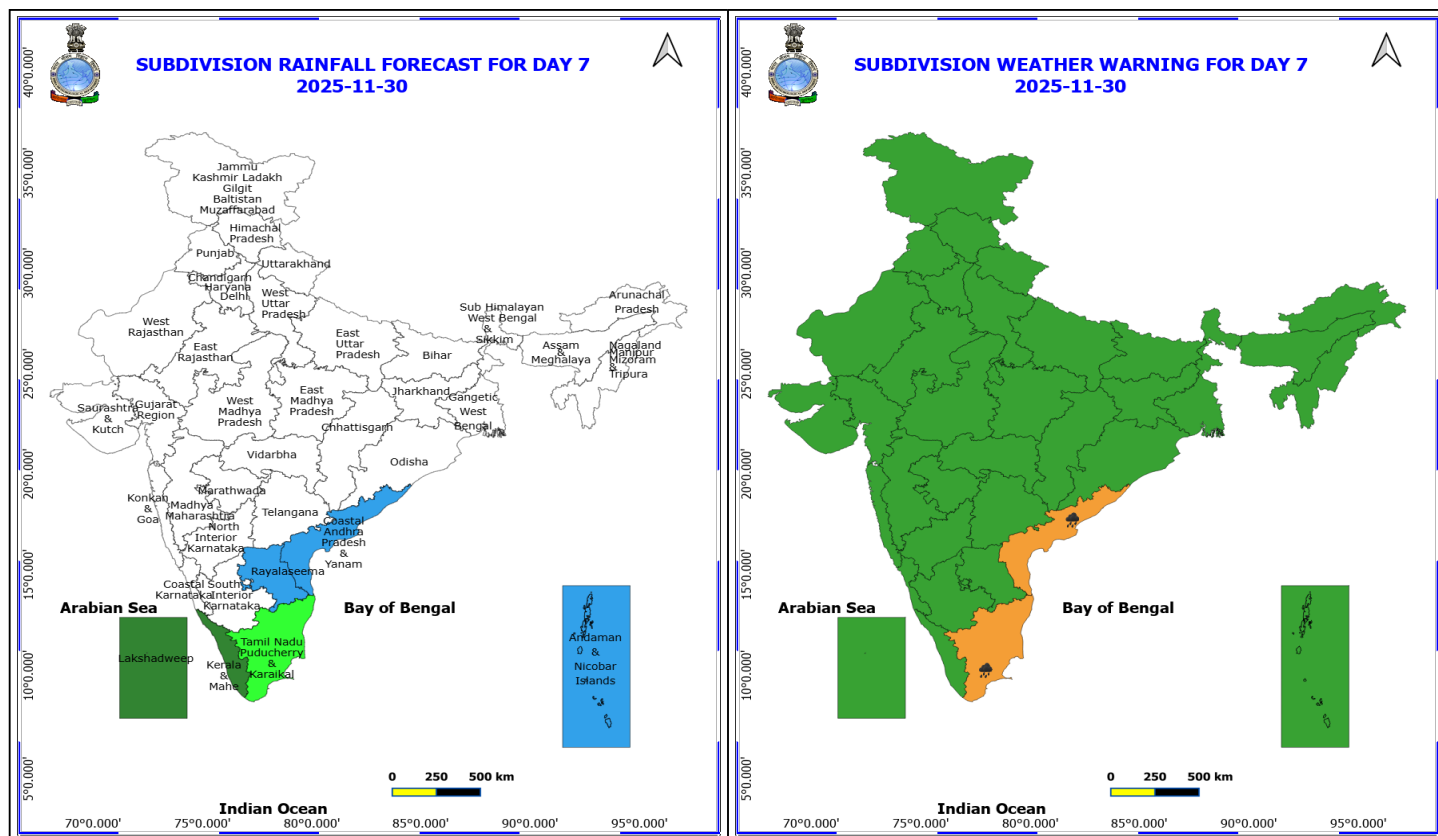
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29 November (Day 6)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands and Coastal Andhra Pradesh.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Andaman & Nicobar Islands.

No Fishermen Warning



30 November (Day 7)

❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Coastal Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.

No Fishermen Warning

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Table-1

7 Days Rainfall Forecast

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

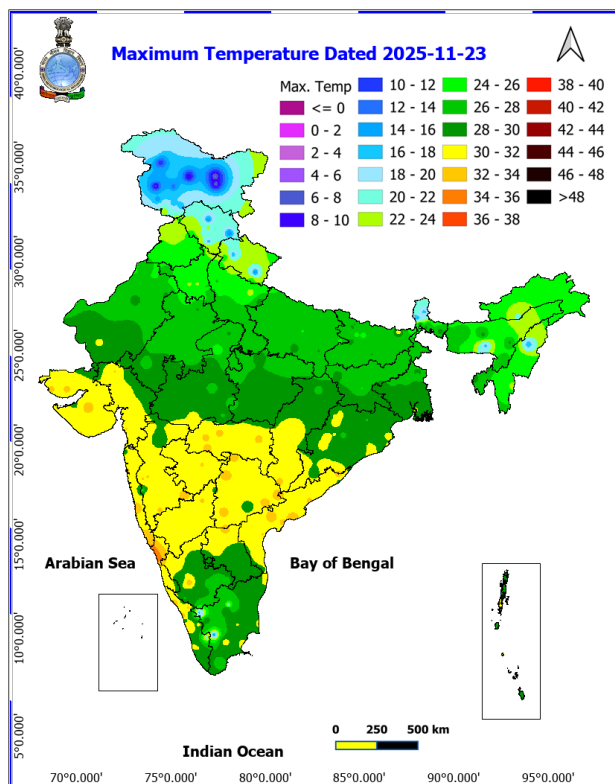


Fig. 2: Departure of Maximum Temp. Dated 2025-11-23

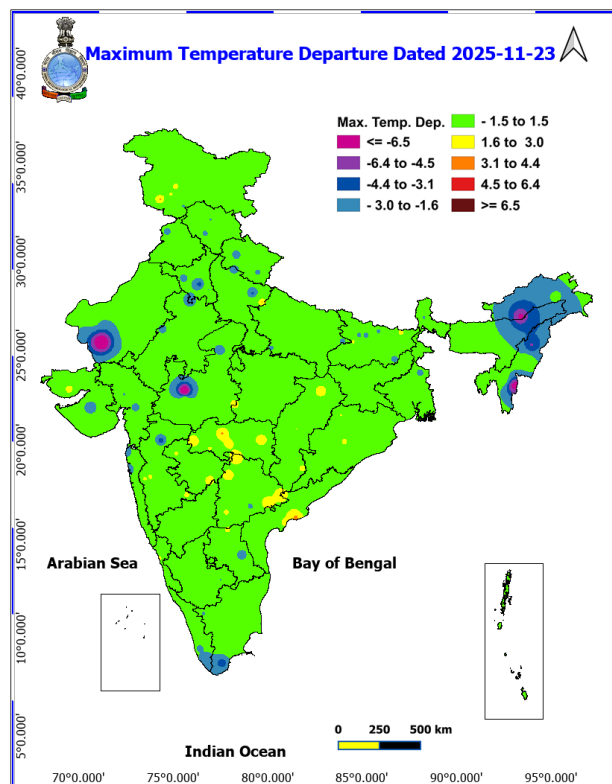


Fig. 3: Minimum Temperatures Dated 2025-11-24

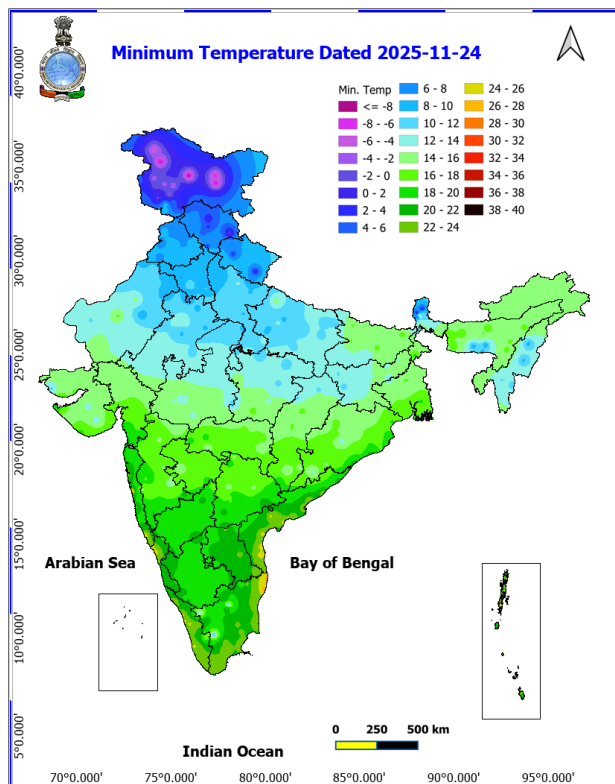
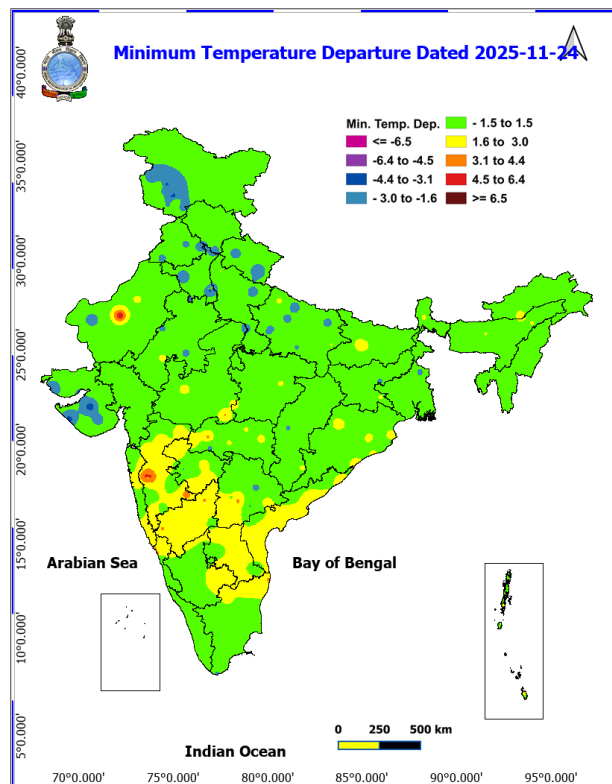
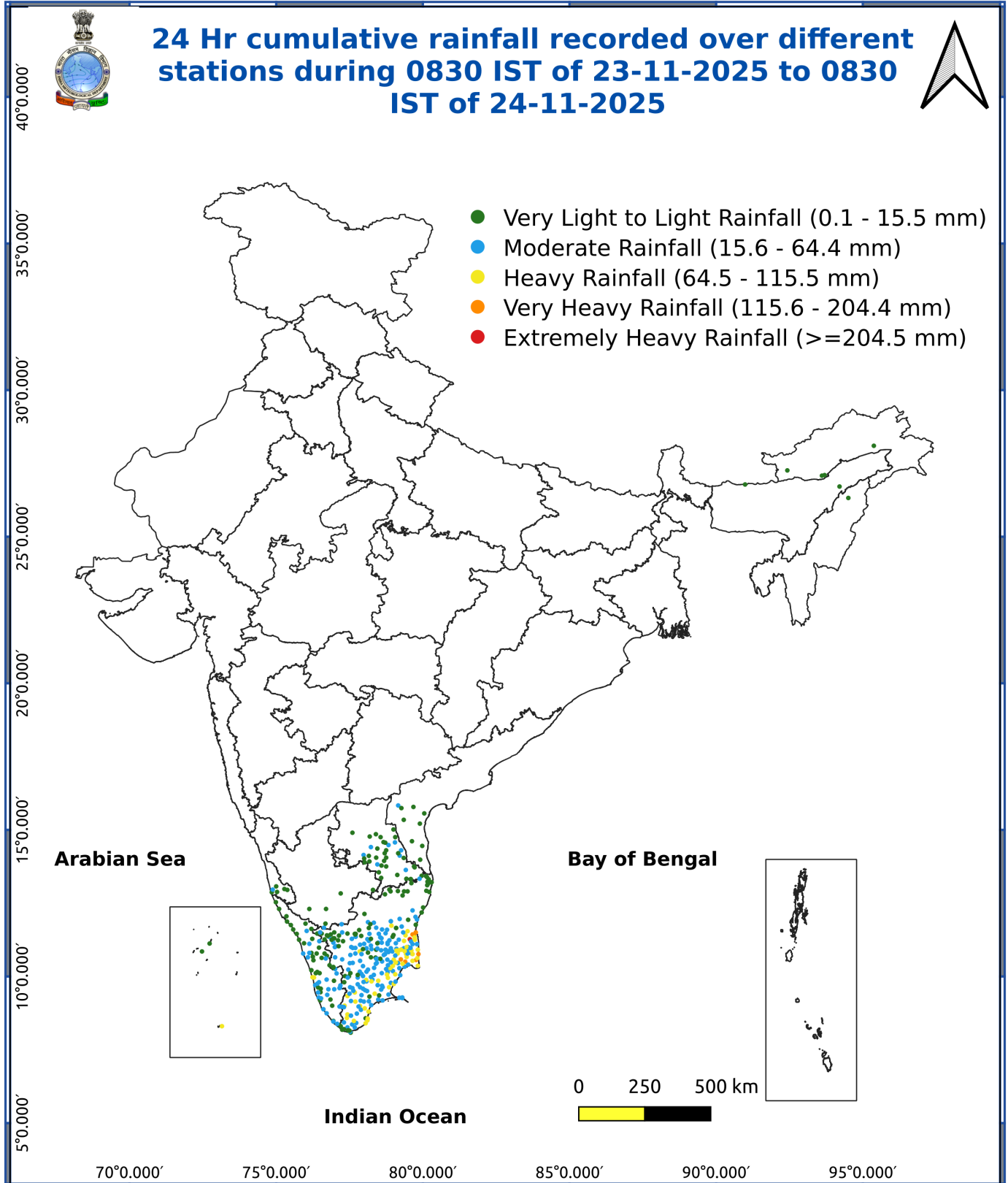


Fig. 4: Departure of Minimum Temp. Dated 2025-11-24





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Impact & Action Suggested due to

- Isolated **very Heavy rainfall** likely over **Tamil Nadu on 24th, 28th-30th, Andaman & Nicobar Islands during 26th-28th, Coastal Andhra Pradesh & Yanam on 30th November.**

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 (for riverine flooding please visit Web page of CWC)

Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Heavy Rainfall

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

- In **Tamil Nadu**, drain out excess rain water from fields of rice, groundnut, sugarcane, cotton, black gram, maize and vegetables and plantations of coconut, banana, arecanut, mango, rubber, cinnamon and black pepper. Strengthen irrigation channels and field bunds in rice to avoid crop lodging. Provide support to banana plants with wooden poles to prevent them from falling.
- In **Kerala**, ensure adequate drainage facilities in fields of rice, vegetables and plantations of banana, coconut, cardamom and black pepper. Carry out propping in banana to prevent their falling due to heavy rainfall. Undertake staking for vegetables grown in pandals.
- In **Andaman and Nicobar Islands**, store the harvested produce of rice in well-covered elevated places to prevent moisture damage. Avoid early sowing of pulses and lentil during heavy rainfall. Provide mechanical support to banana and papaya plants at fruiting stage. Drain out excess water from vegetable nurseries and protect young seedlings using temporary rain shelters or plastic covers.

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

- 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.

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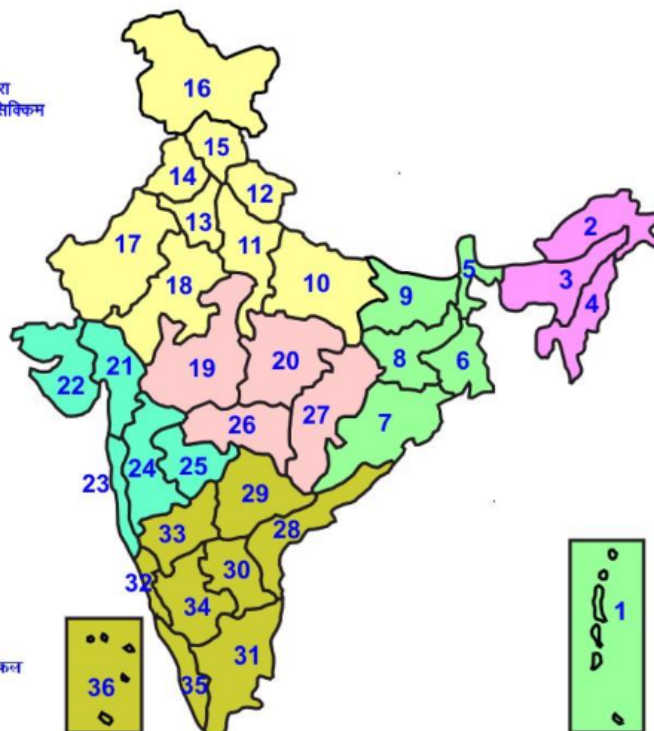
Legends & abbreviations:

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

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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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