



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Wednesday, November 13, 2024 Time of Issue: 1400 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN Significant Weather Features:

Weather Systems:

- Yesterday's low pressure area over southwest & adjoining westcentral Bay of Bengal off north Tamil Nadu & adjoining south Andhra Pradesh coasts has become less marked. However, the associated upper air cyclonic circulation lies over southwest Bay of Bengal off north Tamil Nadu in lower tropospheric levels.
- An upper air cyclonic circulation lies over southeast Arabian Sea off Kerala coast in lower tropospheric levels.
- A fresh Western Disturbance seen as a trough in middle tropospheric westerlies runs roughly along Long. 58°E to the north of Lat. 33°N.

Forecast & Warnings (upto 7 days) (Annexure II & III):

- Light to moderate rainfall at a few places accompanied with isolated thunderstorm and lightning very likely over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Rayalaseema during 13th-16th November, 2024.
- ✓ **Isolated heavy rainfall** very likely over Rayalaseema on 13th; Tamil Nadu, Puducherry & Karaikal during 13th 16th; Kerala & Mahe during 13th 17th; Coastal Andhra Pradesh & Yanam on 13th & 14th; South Interior Karnataka on 14th & 15th November, 2024.
- ✓ **Dense to very dense fog** conditions very likely to prevail in night/early morning hours in isolated pockets of Punjab till 15th morning hours and dense fog for subsequent 1 day; **Dense fog conditions** very likely to prevail in night/early morning hours in isolated pockets over Himachal Pradesh till 18th morning; Haryana, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand till 16th morning hours; Uttar Pradesh & north Rajasthan till 15th November, 2024.

ii. Temperature conditions and Forecast:

Temperature Conditions during past 24 hours till 0830 hours IST of today

No significant change in minimum temperature observed over most parts of the country during past 24 hours. Minimum temperatures are reported markedly above normal by 5.0°C or more at many places over Punjab; at isolated places over West Rajasthan, Haryana-Chandigarh-Delhi, Bihar and East Uttar Pradesh; appreciably above normal by 3.0°C- 4.0°C at a few places over West Uttar Pradesh, Rayalaseema and Coastal Andhra Pradesh & Yanam; at isolated places over East Rajasthan, East Madhya Pradesh, Jharkhand, Gangetic West Bengal, Telangana and Tamil Nadu, Puducherry & Karaikal; above normal by 2.0°C- 3.0°C at most places over Coastal Karnataka; at many places over Gujarat Region; at a few places over Saurashtra & Kutch, West Madhya Pradesh, Assam & Meghalaya, Odisha and Kerala & Mahe; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Konkan & Goa, Sub-Himalayan West Bengal & Sikkim, Interior Karnataka and Nagaland, Manipur, Mizoram & Tripura. These are below normal by 2.0°C-3.0°C at isolated places over Vidarbha. Today, the lowest minimum temperature of 11.4°C is reported at Sidhi (East Madhya Pradesh) over the plains of the country.

- ❖ Gradual fall in minimum temperatures by 2-3°C very likely over northwest India during next 5 days.
- No significant change in minimum temperatures over central India during next 5 days.
- Gradual fall in minimum temperatures by 3-4°C very likely over East India during next 5 days.
- * Rise by 2-3°C in Minimum Temperatures over West India during next 3 days and Gradual fall in minimum temperatures by 2-3°C thereafter.

iii. Weather forecast over Delhi/NCR during 13th Nov. to 16th Nov. 2024

Past Weather:

There has been slight fall in minimum temperature over Delhi/NCR during past 24hr. The Maximum and Minimum temperature over Delhi is in the range of $30-33^{\circ}$ C and 14- 18° C respectively. The maximum temperature was above normal by $2-5^{\circ}$ C over the region and minimum temperature was above normal by 3- 4° C over most places in the region. Mainly clear sky condition with predominant surface wind from northwest direction with wind speed reaching 04-12 kmph prevailed during past 24hr. Palam airport reported very dense fog with zero visibility during 0800 to 0930 hours IST which improved thereafter becoming 200m at 1000 hours IST. Safdarjung airport recorded lowest visibility 200m at 0700 hours IST which improve thereafter becoming 400m at 0930 hours IST. The mainly smog condition with wind speed less than 10 kmph from west/ northwest direction prevailed over the region in the forenoon today.

Weather Forecast:

13.11.2024: Mainly clear sky. The predominant surface wind is likely to be northwest with wind speed upto 08 - 10 kmph till evening. It would decrease thereafter becoming less than 08 kmph from northwest direction during night. Smog/moderate fog is likely in the evening/night.

14.11.2024: Mainly clear sky. The predominant surface wind is likely to be from northwest direction with speed less than 06 kmph during morning hours. Smog/dense to very dense fog in the morning. The wind speed will increase thereafter becoming less than 10 kmph from northwest direction during afternoon. It will decrease thereafter becoming less than 08 kmph from northwest direction during evening and night. Smog/mist/moderate fog is likely in the evening/night.

15.11.2024: Mainly clear sky. The predominant surface wind is likely to be from northwest direction with speed less than 08 kmph during morning hours. Smog/moderate to dense fog at few places in the morning. The wind speed will gradually increase becoming 10-15 kmph from northwest direction during afternoon. It will decrease thereafter becoming less than 08 kmph from northwest direction during evening and night. Smog/ mist is likely in the evening/night.

16.11.2024: Mainly clear sky. The predominant surface wind is likely to be from northwest direction with wind speed less than 08 kmph during morning hours. Smog/ shallow to moderate fog at few places in the morning. The wind speed will increase thereafter becoming 10 - 15 kmph from northwest direction during afternoon. It will gradually decrease becoming less than 10 kmph from northwest directions during evening and night. Smog/ mist is likely in the evening/night.



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Main Weather Observations:

- Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka; at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh and Kerala & Mahe.
- Nadu, Puducherry & Karaikal: Sirkali (dist Mayiladuthurai), Kollidam (dist Mayiladuthurai) 14 each, Puducherry AWS (dist Puducherry), Puducherry (dist Puducherry) 12 each, Kollidam ARG (distMayiladuthurai), Manalmedu ARG (dist Mayiladuthurai) 11 each, Puducherry Town (distPuducherry), Jayamkondam (dist Ariyalur) 8 each, Lalpet (dist Cuddalore), Patthukannu(dist Puducherry), Bahour (dist Puducherry), Manalmedu (dist Mayiladuthurai), Sendurai (dist Ariyalur), Gummidipoondi (dist Tiruvallur) 7 each;Rayalaseema: Gudur (dist Tirupati) 7, Pullampeta (dist Annamayya District) 5, Tada(dist Tirupati) 5, Satyavedu (dist Tirupati) 3, Kodur (dist Ysr District) 3, Venkatagiri (distTirupati) 3, Tirupati Aero (dist Tirupati) 3, Sullurpeta (dist Tirupati) 3, Rajampet (dist Annamayya District) 3, Penagaluru (dist Annamayya District) 3;Coastal Andhra Pradesh & Yanam: Kavali (dist Spsr Nellore) 6, Nellore (dist Spsr Nellore) 6, Rapur (dist Spsr Nellore) 6, Kandukur (dist Spsr Nellore) 4, Chintapalle (dist Alluri Sitharamaraju) 4, Chimakurthi (dist Prakasam) 3.
- **Heavy rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy rainfall** at isolated places over Tamil Nadu and **Heavy rainfall** at isolated places over Rayalaseema.
- Fog conditions observed (at 0530 & 0830 hours IST of today): Dense to very Dense fog reported in isolated pockets of Punjab, Delhi, West Rajasthan and West Uttar Pradesh; Dense fog reported in isolated pockets of Haryana; Following stations reported visibility (≤200metres): Punjab: Amritsar-0, Adampur-0, Halwara-100; Delhi: Delhi-IGI-0; West Rajasthan: Suratgarh-0; West Uttar Pradesh: Hindon Airport-0, Bareilly-0, Meerut-200; Haryana: Hissar, Bhiwani-50 each, Karnal, Nahan-200 each; Chandigarh-200; Himachal Pradesh: Una, Sundernagar-200.
- Minimum Temperature Departures (as on 13-11-2024): Minimum temperatures are markedly above normal (5.1°C or more) at many places over Punjab; at isolated places over West Rajasthan, Haryana-Chandigarh-Delhi, Bihar and East Uttar Pradesh; appreciably above normal (3.1°C to 5.0°C) at a few places over West Uttar Pradesh, Rayalaseema and Coastal Andhra Pradesh & Yanam; at isolated places over East Rajasthan, East Madhya Pradesh, Jharkhand, Gangetic West Bengal, Telangana and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Coastal Karnataka; at many places over Gujarat Region; at a few places over Saurashtra & Kutch, West Madhya Pradesh, Assam & Meghalaya, Odisha and Kerala & Mahe; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Konkan & Goa, Sub-Himalayan West Bengal & Sikkim, Interior Karnataka and Nagaland, Manipur, Mizoram & Tripura. These are below normal (-1.6°C to -3.0°C) at isolated places over Vidarbha. Today, the lowest minimum temperature of 11.4°C is reported at Sidhi (East Madhya Pradesh) over the plains of the country. (Fig.4)
- ★ Maximum Temperature Departures (as on 12-11-2024): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Rajasthan and Delhi; at isolated places over West Uttar Pradesh, Gujarat state and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over East Madhya Pradesh; at a few places over East Uttar Pradesh, Odisha and Kerala & Mahe; at isolated places over Vidarbha, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Yesterday, the highest maximum temperature of 37.0°C was reported at Rajkot (Saurashtra & Kutch) over the country. (Fig. 2)





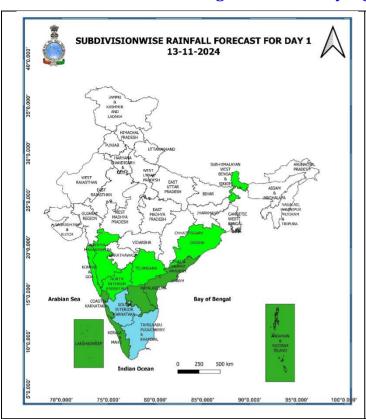
Meteorological Analysis (Based on 0830 hours IST)

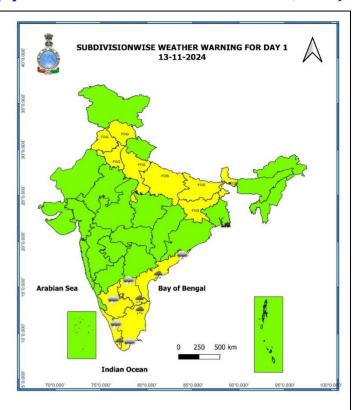
- ❖ The low pressure area over southwest & adjoining westcentral Bay of Bengal off north Tamil Nadu & adjoining south Andhra Pradesh coasts has become less marked. However, the associated upper air cyclonic circulation now lies over southwest Bay of Bengal off north Tamil Nadu and extends upto 0.9 km above mean sea level.
- ❖ The **upper air cyclonic circulation** over southeast Arabian sea and adjoining Kerala coast now lies over southeast Arabian Sea off Kerala coast between 1.5 & 3.1 km above mean sea level.
- ❖ An **upper air cyclonic circulation** lies over east Bangladesh and extends upto 1.5 km above mean sea level.
- ❖ A **fresh Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 58°E to the north of Lat. 33°N.
- **❖ Jet Stream Winds** of the order upto 110 knots at 12.6 km above mean sea level are prevailing over North India.





Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 20th November, 2024)



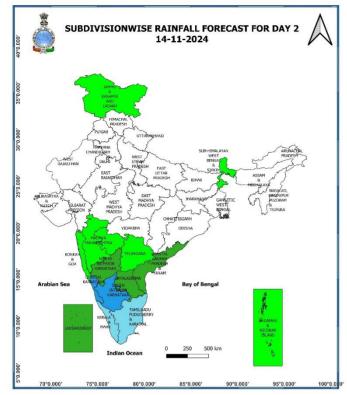


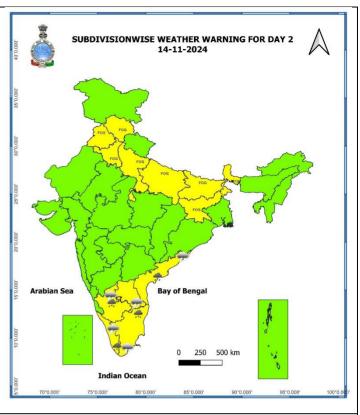
13 November (Day 1):

- ❖ Heavy rainfall (≥ 7 cm) very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ Very dense fog conditions very likely in some parts of Punjab; Dense fog conditions in some parts of Haryana-Chandigarh-Delhi; in isolated pockets of Himachal Pradesh, Uttar Pradesh, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Bihar and Jharkhand; Shallow to Moderate fog conditions in isolated pockets of Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura in the morning hours.
- ❖ Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka.
- ❖ Squally Weather with Wind Speed 35-45 kmph gusting to 55 kmph over parts of southwest Bay of Bengal along and off Sri Lanka Coast along and off Tamilnadu, south Andhra Pradesh coast, Gulf of Mannar and adjoining Comorin Area. Fishermen are advised not to venture into these areas.







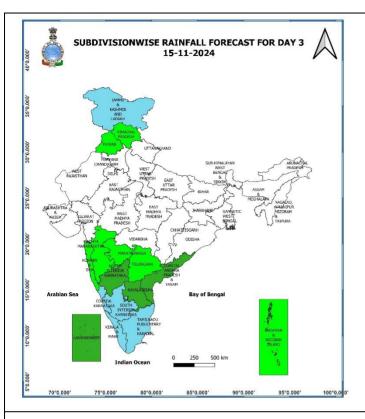


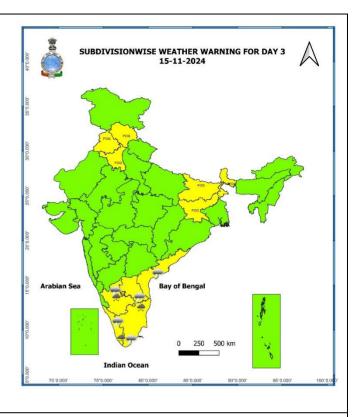
14 November (Day 2):

- ❖ Heavy rainfall (≥ 7 cm) very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and South Interior Karnataka.
- ❖ Very dense fog conditions very likely in isolated pockets of Punjab; Dense fog conditions in isolated pockets of Haryana-Chandigarh-Delhi, Himachal Pradesh, Uttar Pradesh, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Bihar and Jharkhand; Shallow to Moderate fog conditions in isolated pockets of Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura in the morning hours.
- ❖ Thunderstorm accompanied with lightning very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka.
- ❖ Squally Weather with Wind Speed 35-45 kmph gusting to 55 kmph over parts of southwest Bay of Bengal along and off Sri Lanka Coast along and off Tamilnadu, south Andhra Pradesh coast, Gulf of Mannar and adjoining Comorin Area. Fishermen are advised not to venture into these areas.







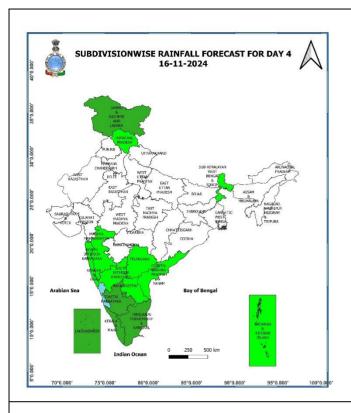


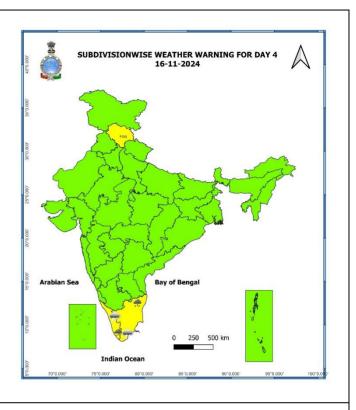
15 November (Day 3):

- ❖ Heavy rainfall (≥ 7 cm) very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and South Interior Karnataka.
- ❖ Dense fog conditions very likely in isolated pockets of Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Sub-Himalayan West Bengal & Sikkim, Bihar and Jharkhand; Shallow to Moderate fog conditions in isolated pockets of Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura in the morning hours.
- ❖ Thunderstorm accompanied with lightning very likely at isolated places over Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka.







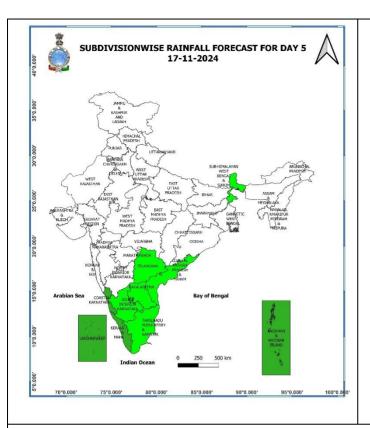


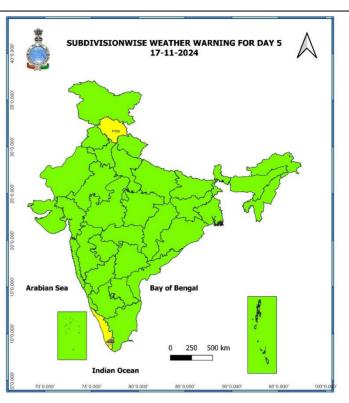
16 November (Day 4):

- ❖ Heavy rainfall (≥ 7 cm) likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ Dense fog conditions likely in isolated pockets of Himachal Pradesh; Shallow to Moderate fog conditions in isolated pockets of Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura in the morning hours.
- ❖ Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.



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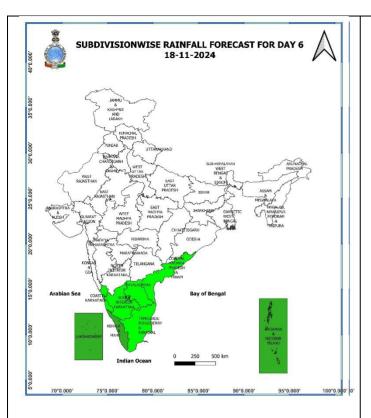


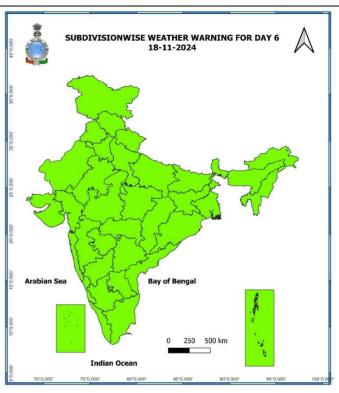
17 November (Day 5):

- **❖ Heavy rainfall (≥ 7 cm)** likely at isolated places over Kerala & Mahe.
- ❖ Dense fog conditions likely in isolated pockets of Himachal Pradesh; Shallow to Moderate fog conditions in isolated pockets of Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura in the morning hours.



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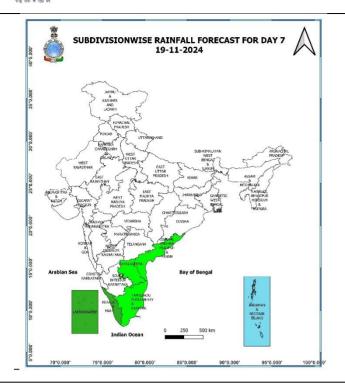


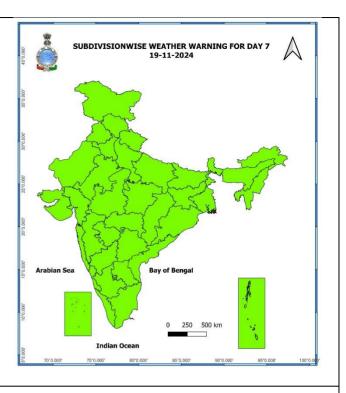
18 November (Day 6):

❖ No Warning



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19 November (Day 7):

❖ No Warning

Weather Outlook for subsequent 3 days (During 20th November - 22nd November, 2024)

- ❖ Isolated to Scattered light rainfall likely over some parts of western Himalayan region and south peninsular India.
- ❖ Mainly dry weather will prevail over rest parts of country.
- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.





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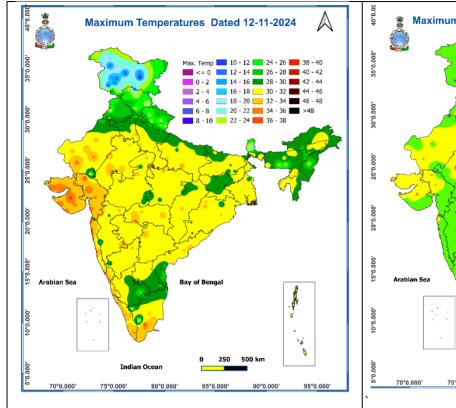
Agromet advisories for Heavy Rainfall likely over various parts of the country:

- ✓ Make arrangements to drain out excess water from the standing crop fields in Tamilnadu, Kerala, South Interior Karnataka and Andhra Pradesh.
- ✓ Keep the harvested produce at safer places.
- ✓ Provide mechanical support to horticultural crops and staking to vegetables.



Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures



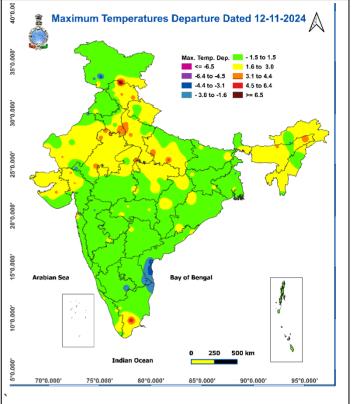


Fig. 3: Minimum Temperatures

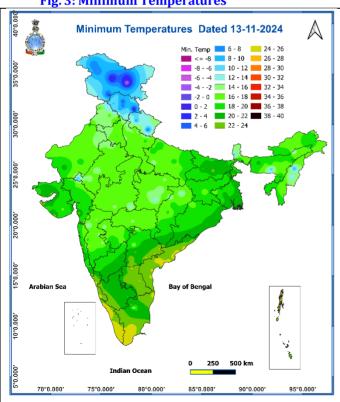


Fig. 4: Departure of Minimum Temperatures

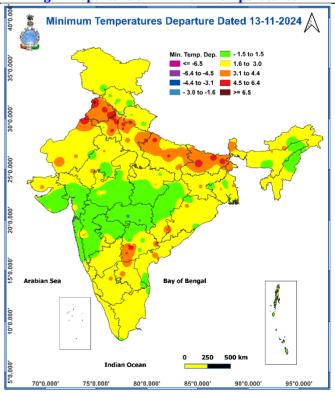
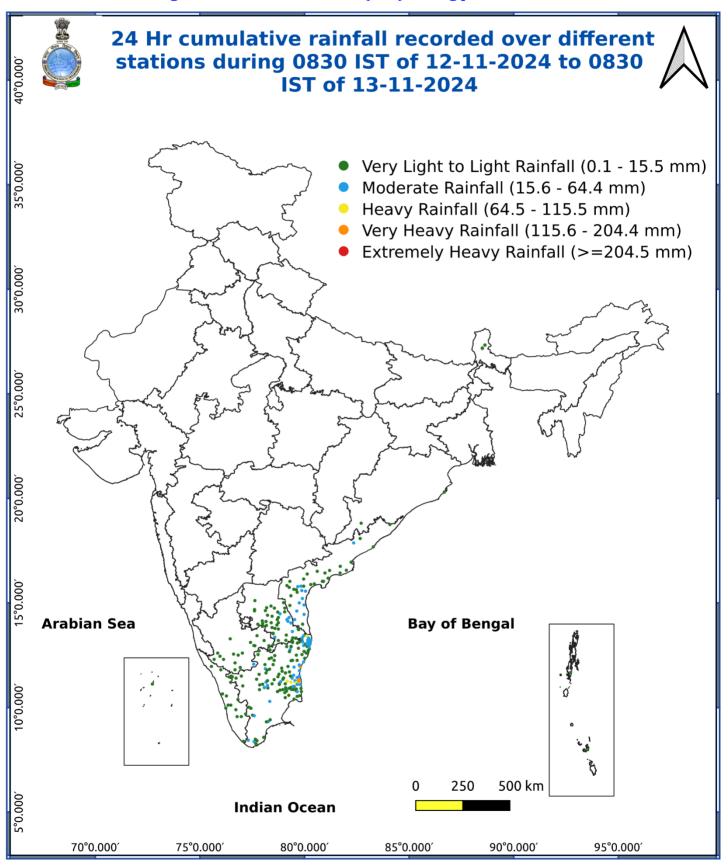






Fig. 5: Accumulated Rainfall (mm) during past 24 hours







LEGENDS

- अंडमान और निकोबार द्वीपसमूह
 अरुणाचल प्रदेश
- 3. असम और मेघालय
- 4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
- 6. गंगीय पश्चिम बंगाल
- 7. ओडिशा
- 8. झारखंड
- 9. बिहार
- 10. पूर्वी उत्तर प्रदेश
- 11. पश्चिम उत्तर प्रदेश
- 12. उत्तराखंड
- 13. हरियाणा, चंडीगढ़ और दिल्ली
- 14. पंजाब
- 15. हिमाचल प्रदेश
- 16. जम्मू और कश्मीर और लद्दाख
- 17. पश्चिम राजस्थान
- 18. पूर्वी राजस्थान
- 19. पश्चिम मध्य प्रदेश
- 20. पूर्वी मध्य प्रदेश
- 21. गुजरात
- 22. सौराष्ट्र
- 23. कोंकण और गोवा
- 24. मध्य महाराष्ट्र
- 25. मराठवाडा
- 26. विदर्भ
- 27. छत्तीसगढ़
- 28. तटीय आंध्र प्रदेश और यनम
- 29. तेलंगाना
- 30. रायलसीमा
- 31. तमिलनाडु, पुडुचेरी और कराईकल
- 32. तटीय कर्नाटक
- 33. आतंरिक उत्तरी कर्नाटक
- 34. आतंरिक दक्षिणी कर्नाटक
- 35. केरल और माहे
- 36. लक्षद्वीप

- 1. Andaman & Nicobar Islands
- 2. Arunachal Pradesh
- 3. Assam & Meghalava
- 4. Nagaland, Manipur, Mizoram & Tripura
- 5. Sub-Himalayan West Bengal & Sikkim
- 6. Gangetic West Bengal
- 7. Odisha
- 8. Jharkhand
- 9. Bihar
- 10. East Uttar Pradesh
- 11. West Uttar Pradesh
- 12. Uttarakhand
- 13. Haryana, Chandigarh & 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. Vidarbha
- 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)	





		ICIIIIS	1 Tobability of Occurrence (70)
		Unlikely	< 25
Hailstorm	Hot & Humid	Likely	25 - 50
		Very Likely	50 - 75
Dust Raising Winds	Strong Surface Winds	Most Likely	> 75
pr Dust Huising Willus	Strong Surface Wings		





(DEFINITION/CRITERIA)
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 ≥40° C for plains and ≥30° 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 ≥6.5° C
(b). Based on Actual maximum temperature Heat Wave: When actual maximum temperature ≥45°C.
Severe Heat Wave: When actual maximum temperature ≥47°C
(c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°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 °C.
When minimum temperature of a station $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ 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 ≤ -6.5 °C
(b) Based on actual Minimum Temperature (for Plains only)
Cold Wave : When Minimum Temperature is ≤ 4.0 °C
Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
(c) For Coastal Stations When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C
Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
Moderate Fog: When the visibility between 500-200 metres
Very 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 ≤4°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
High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
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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)