



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Friday, November 29, 2024 Time of Issue: 1340 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems:

- The Deep Depression over Southwest Bay of Bengal lay centred at 0830 hours IST of today, the 29th November 2024 over the same region near latitude 10.6°N and longitude 82.6°E, about 270 km north-northeast of Trincomalee, 300 km east of Nagapattinam, 340 km east-southeast of Puducherry and 380 km southeast of Chennai. It is likely to move northwestwards and intensify into a cyclonic storm during next 06 hours. Thereafter, it is likely to continue to move northwestwards and cross north Tamil Nadu-Puducherry coasts between Karaikal and Mahabalipuram close to Puducherry as a cyclonic storm with a wind speed of 70-80 kmph gusting to 90 kmph during afternoon 30th November.
- A Western disturbance seen as a trough in middle tropospheric westerlies runs roughly along Long. 54°E to the north of Lat. 32°N.
- * A Cyclonic circulation lies over southeast Bangladesh in lower tropospheric levels.

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

- Light to moderate rainfall at a few places accompanied with isolated thunderstorm & lightning very likely over Tamil Nadu & Puducherry, Andhra Pradesh & Yanam during 29th November- 03rd December, Kerala & Mahe, South Interior Karnataka & Telangana during 30th November-03rd December, Coastal Andhra Pradesh & Yanam & Rayalaseema on 29th & 30th November, Coastal Karnataka during 01st -03rd, Lakshadweep on 02rd & 03rd December.
- ✓ Light to moderate rainfall at many places over Andaman & Nicobar Islands during the week.
- Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over north Tamil Nadu & Rayalaseema on 29th & 30th, south Coastal Andhra Pradesh & Yanam on 30th November. Heavy to very heavy rainfall at isolated places very likely over Interior Tamil Nadu on 01st December, Heavy rainfall at isolated places very likely over Tamil Nadu & Lakshadweep on 02nd & 03rd, Coastal Andhra Pradesh & Yanam & Rayalaseema on 01st December.
- Heavy rainfall at isolated places very likely over Kerala & Mahe on 30th November & 03rd December & South Interior Karnataka on 30th November. Heavy to very heavy rainfall at isolated places very likely over Kerala & Mahe & South Interior Karnataka on 01st & 02nd December.
- ✓ Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands on 30th November.
- Dense fog conditions very likely to prevail during late night/early morning hours in isolated pockets of Uttar Pradesh till 02nd December morning hours.
- ✓ **Cold wave** conditions very likely in isolated pockets over Madhya Maharashtra on 29th November.

Weather forecast over Delhi/NCR during 29th Nov. to 02nd Dec. 2024

Past Weather:

There has been a slight fall in minimum temperature and slight rise in maximum temperature over Delhi/NCR during past 24hr. The Maximum and Minimum temperature over Delhi is in the range of 25 to 28°C and 08 to 12°C respectively. The maximum temperature was above normal by 1 to 2°C and the minimum temperature was below normal by 1 to 4°Cover most places. Mainly smog/ shallow fog condition with predominant surface wind from northwest direction with wind speed reaching 04 to 08 kmph prevailed during day time and calm wind during night time on 28.11.2024. Shallow fog reported at Safdarjung airport during early morning today. Safdarjung airport recorded lowest visibility 1000 m during 0730 hours to 0930 hours IST which improved thereafter becoming 1000m at 1000 hours IST. Mainly smog condition with calm wind prevailed over the region in the forenoon today.

Weather Forecast:

29.11.2024: Mainly clear sky. The predominant surface wind is likely to be variable direction with wind speed less than 04 kmph till evening. It would decrease thereafter becoming calm during night. Smog/mist is likely in the evening/night.

30.11.2024: Mainly clear sky. The predominant surface wind is likely to be from variable direction with speed less than 04 kmph during morning hours. Smog/ shallow fog is likely in the morning. The wind speed will increase thereafter becoming less than 06 kmph from variable direction during afternoon. It will decrease thereafter becoming less than 04 kmph from variable direction during evening and night. Smog/Mist is likely in the evening/night.

01.12.2024: Mainly clear sky. The predominant surface wind is likely to be from variable direction with speed less than 04 kmph during morning hours. Smog/shallow to moderate fog is likely in the morning. The wind speed will gradually increase becoming 06-08 kmph from northwest direction during afternoon. It will decrease thereafter becoming less than 04 kmph from northwest direction during evening and night. Smog/ shallow fog is likely in the evening/night.

02.12.2024: Mainly clear sky. The predominant surface wind is likely to be from variable direction with wind speed less than 04 kmph during morning hours. Smog/shallow to moderate fog in the morning. The wind speed will increase thereafter becoming 06-08 kmph from north/northwest direction during afternoon. It will gradually decrease becoming less than 04 kmph from north direction during evening and night. Smog/ shallow fog is likely in the evening/night.





Main Weather Observations:

- Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Tamil Nadu, Puducherry & Karaikal.
- * Heavy rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): NIL
- **Cold wave conditions** observed in isolated pockets of Madhya Maharashtra.
- Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Tamil Nadu, Puducherry & Karaikal: Karaikal & Nagapattinam-1 each.
- Fog conditions observed (at 0530 hours IST of today): Dense fog (visibility 50-200 m) reported in isolated pockets of Uttar Pradesh.
- Visibility reported (in m): Tamil Nadu, Puducherry & Karaikal: Zone 01 Kathivakkam (dist Chennai), Chennai Collector Office (dist Chennai), DGP Office (distChennai) 6 each,CD Hospital Tondiarpet (dist Chennai), Zone 05 Basin Bridge (dist Chennai), Anna UniversityARG (dist Chennai), YMCA Nandnam ARG (dist Chennai), Chennai(N) AWS (dist Chennai),Zone 04 Tondiarpet (dist Chennai), Zone 01 Thiruvottiyur (dist Chennai), Anna University (distChennai) 5 each; Rayalaseema: Sullurpeta (dist Tirupati) 2
- Minimum Temperature Departures (as on 29-11-2024): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Odisha; at isolated places over West Rajasthan, Gujarat Region, Bihar, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Telangana and Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at isolated places over Uttar Pradesh, Saurashtra & Kutch, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. These are markedly below normal (-5.1°C or less) at isolated places over Madhya Maharashtra; appreciably below normal (-5.0°C to -3.1°C) at isolated places over East Madhya Pradesh, Konkan & Goa, Marathwada and Vidarbha; below normal (-3.0°C to -1.6°C) at few places over West Madhya Pradesh; at isolated places over East Rajasthan and Assam & Meghalaya and near normal over rest parts of the country. Today, the lowest minimum temperature of 6.0°C is reported at Adampur IAF (Punjab) over the plains of the country. (Fig.4)
- Maximum Temperature Departures (as on 28-11-2024): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan; above normal (1.6°C to 3.0°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, Uttarakhand, West Uttar Pradesh, East Rajasthan, Saurashtra & Kutch, Assam & Meghalaya, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. These were appreciably below normal (-5.0°C to -3.1°C) at a few places over Madhya Pradesh, Madhya Maharashtra and Marathwada; below normal (-1.6°C to -3.0°C) at many places over North Interior Karnataka and Telangana; at a few places over Vidarbha and Odisha; at isolated places East Uttar Pradesh, Bihar, Chhattisgarh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.6°C was reported at Kannur Airport (Kerala) over the country. (Fig. 2)





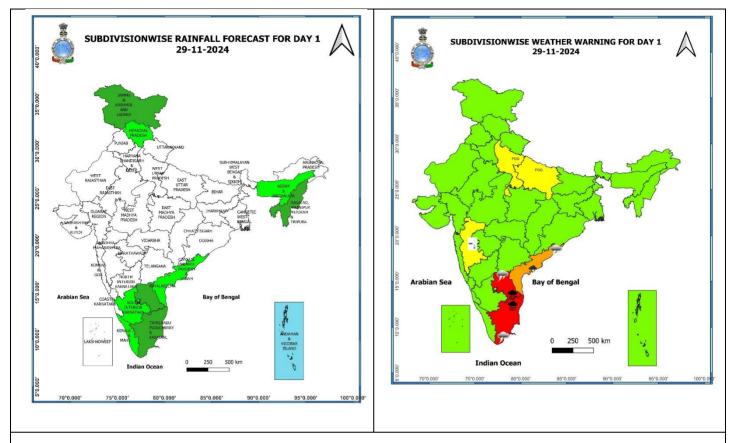
Meteorological Analysis (Based on 0830 hours IST)

- The Deep Depression over Southwest Bay of Bengal moved northnorthwestwards with a speed of 8 Kmph during past 6 hours and lay centred at 0830 hours IST of today, the 29th November 2024 over the same region near latitude 10.6°N and longitude 82.6°E, about 270 km north-northeast of Trincomalee, 300 km east of Nagapattinam, 340 km east-southeast of Puducherry and 380 km southeast of Chennai. It is likely to move northwestwards and intensify into a cyclonic storm during next 06 hours. Thereafter, it is likely to continue to move northwestwards and cross north Tamil Nadu-Puducherry coasts between Karaikal and Mahabalipuram close to Puducherry as a cyclonic storm with a wind speed of 70-80 kmph gusting to 90 kmph during afternoon 30th November.
- 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. 54°E to the north of Lat. 32°N.
- The Cyclonic circulation over southeast Bangladesh persists and now seen at 1.5 km above mean sea level.
- Jet Stream Winds of the order upto 130 knots at 12.6 km above mean sea level are prevailing over Northwest India.



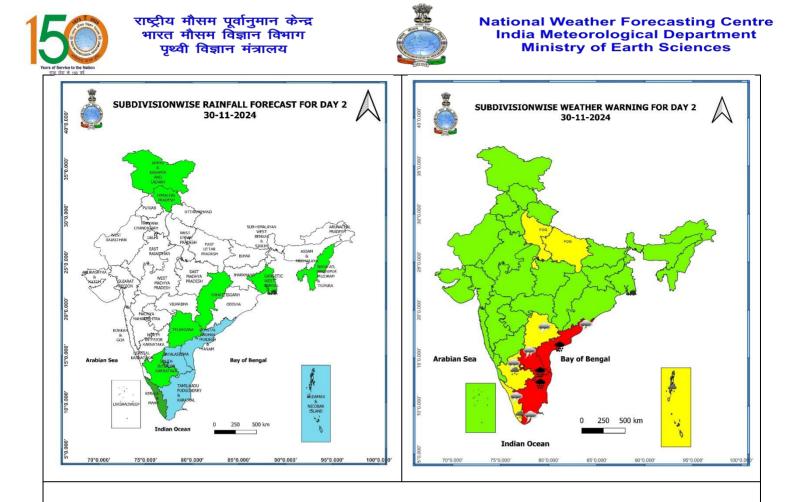


Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 06th December, 2024)



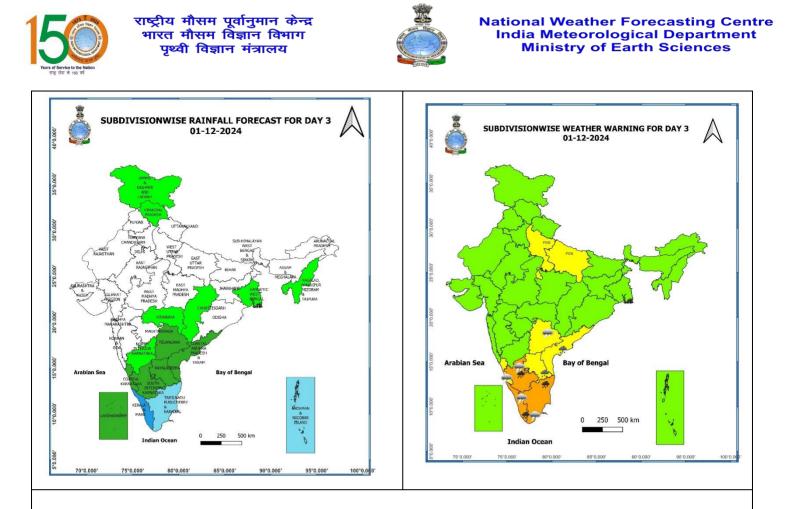
29 November (Day 1):

- ✤ Heavy to very heavy rainfall with extremely heavy falls (≥ 20 cm)) very likely at isolated places over north Tamil Nadu and Rayalaseema; Heavy to very Heavy rainfall (≥ 12 cm) at isolated places over remaining parts of Tamil Nadu, Puducherry & Karaikal, south Coastal Andhra Pradesh.
- **Dense fog** very likely in isolated pockets of Uttar Pradesh in night/morning hours.
- Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- **Cold wave conditions** very likely in isolated pockets of Madhya Maharashtra.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail along & off South Tamil Nadu coast and Gulf of Mannar; Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over adjoining areas of westcentral Bay of Bengal, along & off North Tamil Nadu - Puducherry and adjoining South Andhra Pradesh coasts; Squally wind speed reaching 55-65 kmph gusting to 75 kmph is prevailing over southwest Bay of Bengal, along & off East Sri Lanka coasts. Fishermen are advised not to venture into these areas.



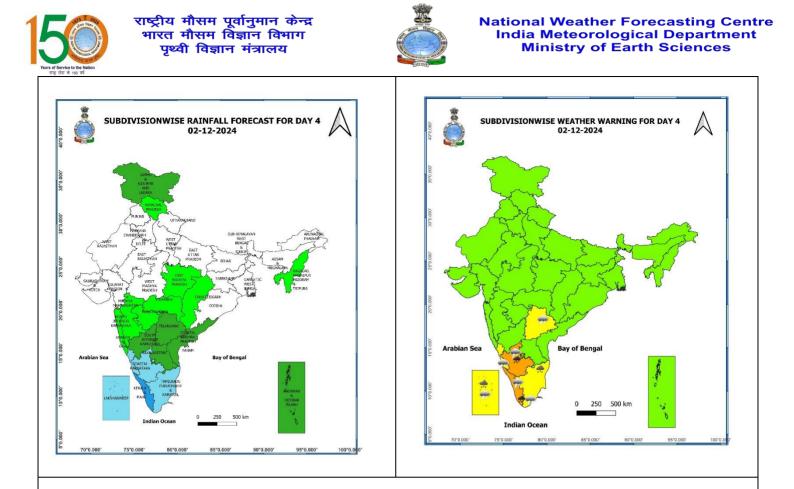
30 November (Day 2):

- ★ Heavy to very Heavy rainfall at a few places with extremely heavy falls (≥ 20 cm) very likely at isolated places over north Tamil Nadu; Heavy to very Heavy with extremely heavy falls (≥ 20 cm) at isolated places over Rayalaseema and south Coastal Andhra Pradesh; Heavy rainfall (≥ 7 cm) at isolated places over Kerala & Mahe, South Interior Karnataka and Andaman & Nicobar Islands.
- **Dense fog** very likely in isolated pockets of Uttar Pradesh in night/morning hours.
- Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, South Interior Karnataka, Telangana and Rayalaseema.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail along & off South Tamil Nadu coast and Gulf of Mannar; Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over adjoining areas of westcentral Bay of Bengal; Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely to prevail Along & off East Sri Lanka coasts; Gale wind speed reaching 60-70 kmph gusting to 80 kmph is likely to prevail over southwest Bay of Bengal, along & off North Tamil Nadu - Puducherry and adjoining South Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.



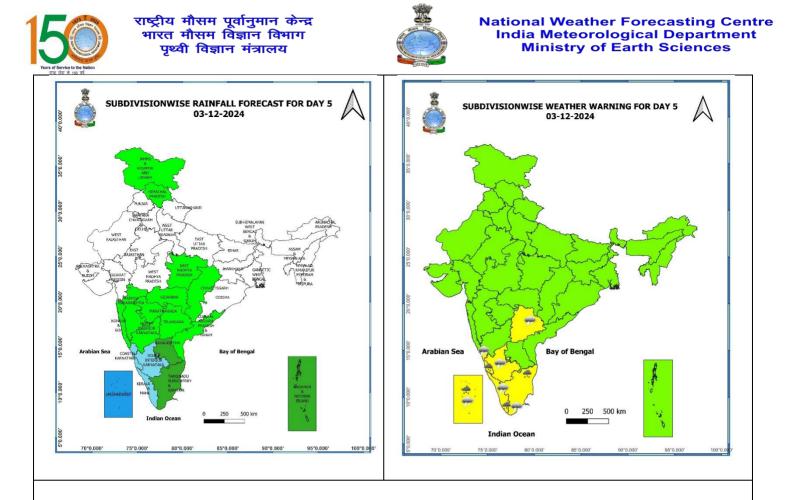
01 December (Day 3):

- ✤ Heavy to very Heavy rainfall (≥ 12 cm) at isolated places over Interior Tamil Nadu, Kerala & Mahe and South Interior Karnataka; Heavy rainfall (≥ 7 cm) at isolated places over remaining parts of Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- **Dense fog** very likely in isolated pockets of Uttar Pradesh in night/morning hours.
- Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal & South Interior Karnataka and Telangana.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to prevail along & off South Tamil Nadu coast and Gulf of Mannar, Along & off East Sri Lanka coasts, along & off North Tamil Nadu – Puducherry and adjoining South Andhra Pradesh coasts & adjoining areas of westcentral Bay of Bengal.Fishermen are advised not to venture into these areas.



02 December (Day 4):

- ★ Heavy to very Heavy rainfall (≥ 12 cm) at isolated places over Kerala & Mahe and South Interior Karnataka. Heavy rainfall (≥ 7 cm) at isolated places over Tamil Nadu, Puducherry & Karaikal and Lakshadweep.
- Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Coastal & South Interior Karnataka and Telangana.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to prevail along & off South Tamil Nadu coast and Gulf of Mannar, Along & off East Sri Lanka coasts, along & off North Tamil Nadu – Puducherry and adjoining South Andhra Pradesh coasts & adjoining areas of westcentral Bay of Bengal.Fishermen are advised not to venture into these areas.



03 December (Day 5):

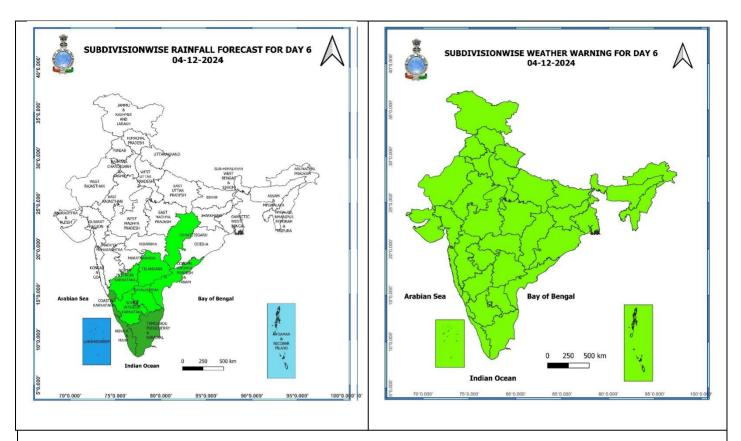
- ✤ Heavy rainfall (≥ 7 cm) likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Karnataka and Lakshadweep.
- Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Coastal & South Interior Karnataka and Telangana.



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय

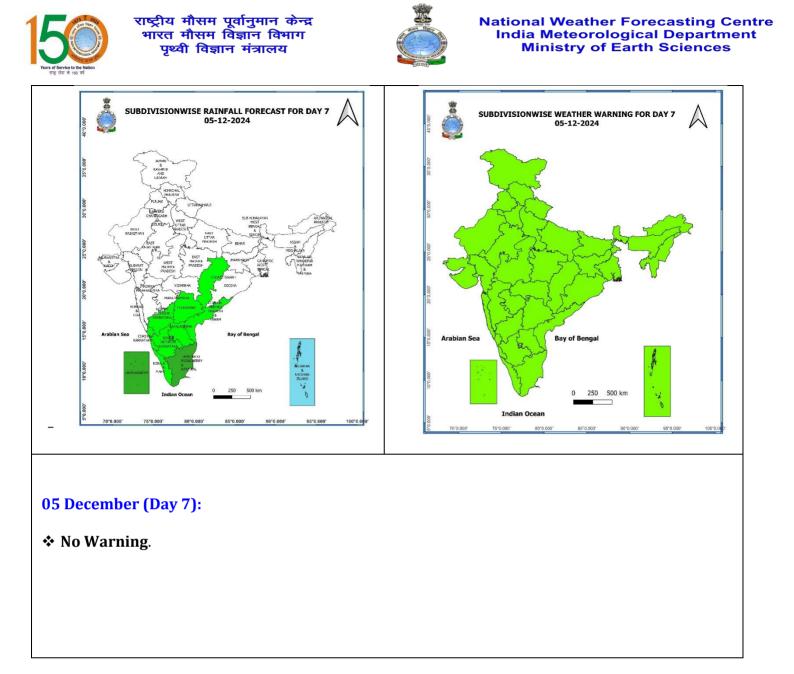


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04 December (Day 6):

* No Warning.



Weather Outlook for subsequent 3 days (During 06th December – 08th December, 2024)

- Isolated to Scattered to light to moderate rainfall likely over some parts of south peninsular India and light rainfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- 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.





Impact & Action Suggested due to

- ✓ Heavy to very Heavy rainfall with extremely falls at isolated places over north Tamil Nadu and Rayalaseema on 29th & 30th; south Coastal Andhra Pradesh on 30th November.
- ✓ Isolated heavy to very heavy rainfall over south Coastal Andhra Pradesh on 29th November; Interior Tamil Nadu on 01st December; Kerala & Mahe and South Interior Karnataka on 01st & 02nd December.
- ✓ Moderate to high flash flood risk likely over Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Coastal Andhra Pradesh & Yanam on 29th & 30th November. (ANNEXURE I)

A. 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
- 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).

B. 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.

Impact expected due to dense/ very dense fog in the late night /morning hours

- Transport and Aviation:
 - May affect some airports, highways and railway routes in the areas of met- sub-division.
 - Difficult driving conditions with slower journey times.
 - Unless taken precautionary measures, it may lead to some road traffic collisions.
- Power Sector:
 - Chances of Tripping of Power lines in the very dense fog routes.
- ✤ Human Health:

• Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.

• Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.

• Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

- Transport and Aviation:
 - Be careful while driving or outing through any transport.
 - Use fog lights during driving.
 - Be in touch with airlines, railways and state transport for schedule of your journey.
- Power Sector:
 - To keep ready Maintenance Team
 - Human Health: To avoid outing until unless emergency and to cover the face.





Agromet advisories for Heavy Rainfall likely over Tamil Nadu, Kerala and Coastal Andhra Pradesh:

- In Tamil Nadu, drain out excess water from rice, sugarcane, cotton, turmeric, vegetables and other standing crop fields; coconut and banana orchards. Undertake propping in sugarcane. Provide mechanical support to banana plants to prevent lodging.
- Undertake picking of matured cotton bolls and harvesting of matured rice, maize, groundnut, finger millet, pigeon pea, areca nut, fruits and vegetables in South Interior Karnataka and harvesting of matured rice in Andhra Pradesh immediately. Keep the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields.
- Provide adequate drainage facilities for removal of excess water from standing crop fields and fruit orchards in Andhra Pradesh and South Interior Karnataka.
- Provide mechanical support to horticultural crops and staking to vegetables.

Livestock and Fishery

- ▶ Keep the animals inside the shed during heavy rainfall and provide balanced feed.
- Store the feed and fodder at safer place to avoid spoilage from rainfall.
- > Hang gunny bags all around poultry sheds.
- Construct an outlet with proper netting around the pond to drain out excess rain water, thereby preventing fishes/fingerlings from escaping in case of overflowing.
- > Check and repair dykes around the ponds to avoid entry of runoff water from catchment area.

Flash Flood Guidance:

ANNEXURE I

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 30-11-2024:

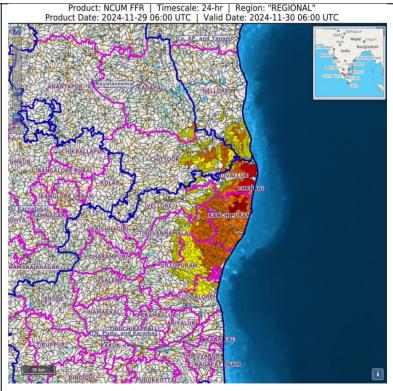
Moderate to high flash flood risk likely over few watersheds & neighbourhoods of following Meteorological subdivision in next 24 hours.

Coastal Andhra Pradesh – Thirupati and Nellore district

Rayalaseema – Chittoor, Annamaya and Kadapa district

Tamil Nadu, Puducherry & Karaikal - Chennai, Kanchipuram, Vellupuram, Cuddalore, Vellore, Tiruvannamalai and Tiruvallur districts.

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





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Fig. 2: Departure of Maximum Temperatures

Fig. 1: Maximum Temperatures

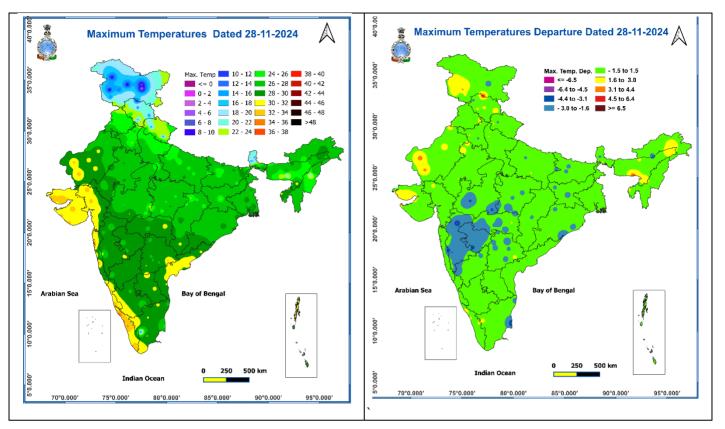
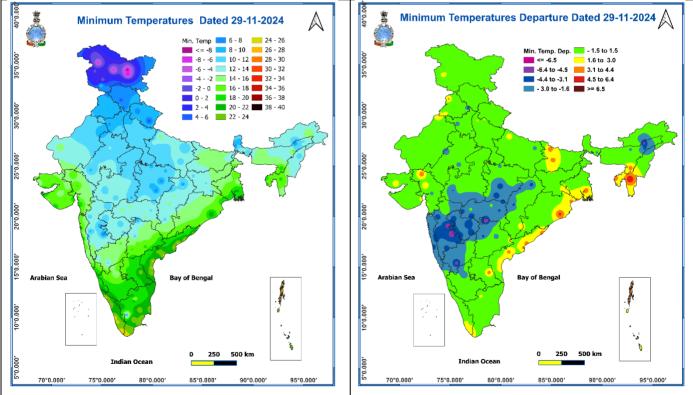


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

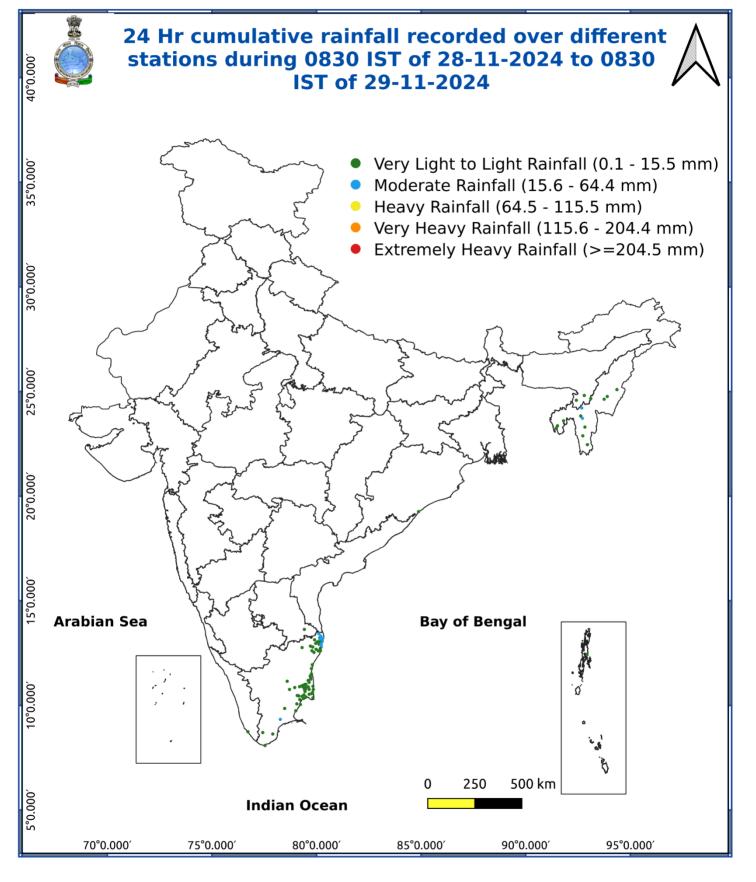


* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)





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



* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)



🐢 Hailstorm

Sust Raising Winds



National Weather Forecasting Centre India Meteorological Department **Ministry of Earth Sciences**

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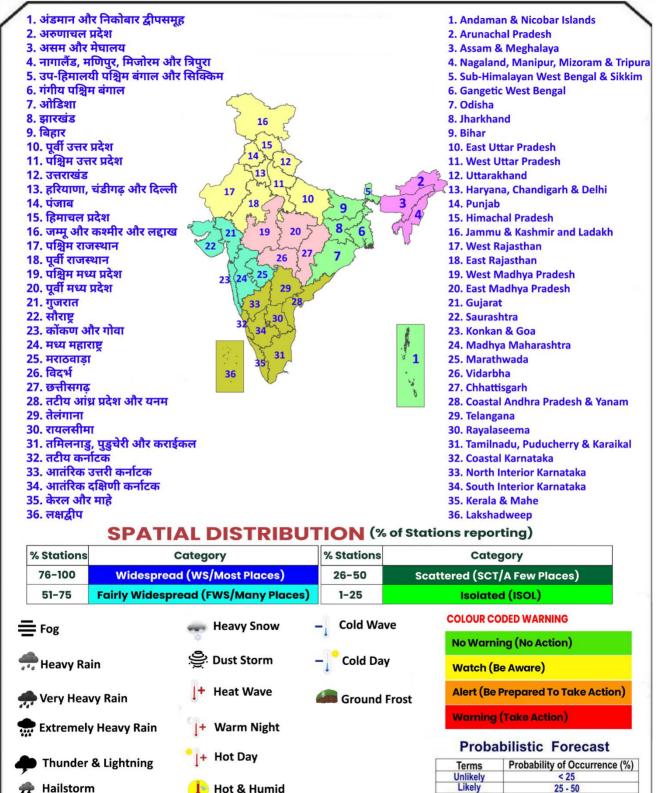
50 - 75

> 75

Very Likely

Most Likely

LEGENDS



Hot & Humid

Strong Surface Winds





Rain/ Snow *	Heavy: 64.5 to 115.5 mm/cm *
	Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *
Heat Wave	When maximum temperature of a station reaches \geq 40° C for plains and \geq 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 ≥47°C 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	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
Cold Wave	When minimum temperature of a station ≤10°C for plains and ≤0°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
Cold Day	When minimum temperature of a station $\le 10^\circ$ C for plains and $\le 0^\circ$ 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
Fog	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
	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
understorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
Dust/Sand Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
Frost	Ice deposits on ground
	Air temperature ≤4°C (over Plains)
Squall	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
Sea State	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
Cyclone	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
	Severe Cyclonic Storm: Wind speed 62-67 Kingh (34-47 Kinds) 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 Strom: Wind speed >220 kmph (>119 knots)
	Cuper Cyclone Stront. Wind Speed 220 Milph (2113 MID(S)