

राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

> Thursday, October 3, 2024 Time of Issue: 1315 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems:

- ✓ The upper air circulation over southeast Bangladesh & neighbourhood extending upto middle tropospheric levels persists. Under its influence, a Low Pressure Area is likely to form over North Bay of Bengal & neighbourhood around 04th October.
- ✓ Yesterday's cyclonic circulation over Maldives area now lies over Lakshadweep area in lower tropospheric levels.

Forecast & Warnings (upto 7 days):

East & Northeast India:

- ✓ Fairly widespread to widespread light to moderate rainfall very likely over Northeast region during the week; Widespread light to moderate rainfall very likely over Sub-Himalayan West Bengal & Sikkim during next 2 days & Scattered to Fairly widespread light to moderate rainfall during the next subsequent 5 days; Scattered to Fairly widespread light to moderate rainfall very likely Gangetic West Bengal; Isolated to Scattered light to moderate rainfall over the remaining region during the week.
- ✓ Isolated heavy to very Heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 03rd & 04th October.
- ✓ Isolated heavy rainfall very likely over Northeast India during next 7 days; Sub-Himalayan West Bengal & Sikkim during 03rd -05th; Gangetic West Bengal on 04th October.

South Peninsular India:

- ✓ Fairly widespread to widespread light to moderate rainfall very likely over Kerala & Mahe, Lakshadweep, South Interior Karnataka; Scattered to Fairly widespread light to moderate rainfall very likely over Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka, North Interior Karnataka; Isolated to Scattered light to moderate rainfall very likely over Rayalaseema, Telangana, Coastal Andhra Pradesh & Yanam during the week.
- ✓ Isolated heavy rainfall very likely over Kerala & Mahe during the next 7 days; South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal during 03rd-08th; Rayalaseema during 03rd-05th; North Interior Karnataka on 03rd October.

Northwest, West & Central India:

✓ No significant rainfall likely over these regions during next one week.





Main Weather Observations:

- Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep, South Interior Karnataka; at a few places over Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, North Interior Karnataka; at isolated places over Uttarakhand, East Uttar Pradesh, West Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Odisha, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat state, Coastal Karnataka.
- Heavy rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to very Heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura; Heavy rainfall at isolated places over Assam & Meghalaya, Saurashtra & Kutch, Rayalaseema, Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal.
- Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Sub-Himalayan West Bengal & Sikkim: Darjeeling (dist Darjeeling) 17, Bijonbari (dist Darjeeling) 13, Algarah (dist Kalimpong) 9, Amfu Kalimpong (dist Kalimpong) 9, Kalimpong (dist Kalimpong) 8; Arunachal Pradesh: Pakke_Kesang (aws) 16, Huri (AWS) 9, Sarli (AWS) 7; Nagaland, Manipur, Mizoram & Tripura: Nutanbazar CWC 15, Belonia (ARG) 11; South Interior Karnataka: Gubbi (dist Tumakuru) 9; Assam & Meghalaya: Lumding 9; Tamil Nadu: Natrampalli (dist Tirupathur), Yelagiri ARG (dist Tirupathur), Kelavarapalli Dam (dist Krishnagiri) 9 each, Vadapudupattu (dist Tirupathur), Ambur (dist Tirupathur) 8 each; Saurashtra & Kutch: Khambha (dist Amreli) 9; Rayalaseema: Chenne Kothapalle (dist Sri Sathyasai District) 8, Madanapalle (dist Annamayya District) 8; Kerala & Mahe: Airport Chakka (dist Thiruvananthapuram) 7; North Interior Karnataka: Vijayapura Pto (dist Vijayapura) 7.
- Minimum Temperature Departures (as on 03-10-2024): Minimum temperatures are markedly above normal (5.1°C or above) at isolated places over East Rajasthan, West Madhya Pradesh; appreciably above normal (3.0°C to 5.0°C) at isolated places over Punjab, West Rajasthan, Haryana, Delhi, West Uttar Pradesh, Bihar, Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most place over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Gujarat state, Odisha, Jharkhand, Chhattisgarh, Vidarbha, Konkan & Goa, Coastal Karnataka, North Interior Karnataka; at many places over Gangetic West Bengal, Marathwada, South Interior Karnataka, Coastal Andhra Pradesh & Yanam; at a few places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Assam & Meghalaya; at isolated places over Arunachal Pradesh, Telangana, Rayalaseema. Today, the lowest minimum temperature of 20.5°C is reported at Delhi-Ridge (New Delhi) over the plains of the country. (Fig.4)
- Maximum Temperature Departures (as on 02-10-2024): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Uttar Pradesh, Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Gujarat state, Vidarbha, South Interior Karnataka, Rayalaseema; at many places over Himachal Pradesh, Punjab, West Rajasthan, Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Marathwada, Konkan & Goa, North Interior Karnataka, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal; at a few places over Haryana-Chandigarh-Delhi, East Rajasthan, Telangana; at isolated places over West Uttar Pradesh, Odisha, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya. These are below normal (-1.6°C to -3.0°C) at isolated places Gangetic West Bengal and near normal over rest parts of the country. Yesterday, the highest Maximum Temperature of 40.7°C was reported at Nellore (Coastal Andhra Pradesh & Yanam) over the country. (Fig. 2)





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Meteorological Analysis (Based on 0830 hours IST)

- ✤ The line of withdrawal of Southwest Monsoon continues to pass through 30.8°N/81.2°E, Lakhimpur Kheri, Shivpuri, Kota, Udaipur, Deesa, Surendranagar, Junagarh and 21°N/70°E.
- Conditions are favourable for further withdrawal of Southwest Monsoon from remaining parts of West Uttar Pradesh, some more parts Madhya Pradesh, remaining parts of East Rajasthan, some more parts of Gujarat and some parts of Maharashtra during next 2-3 days.
- The upper air circulation over southeast Bangladesh & neighbourhood extending upto 5.8 km above mean sea level persists. The trough from the cyclonic circulation over southeast Bangladesh & neighbourhood to North Andaman Sea across Myanmar coast now runs from northeast Bihar to north Andaman Sea across the above cyclonic circulation over southeast Bangladesh and east Bay of Bengal at 0.9 km above mean sea level. Under its influence, a Low Pressure Area is likely to form over North Bay of Bengal & neighbourhood around 04th October.
- The cyclonic circulation over Maldives & neighbourhood is now seen over Lakshadweep & neighbourhood and extends upto 4.5 km above mean sea level tilting south-westwards with height.



40°N

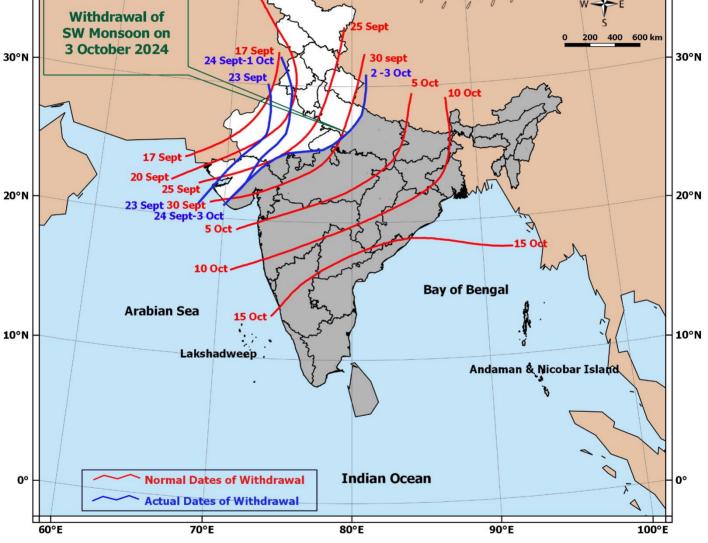


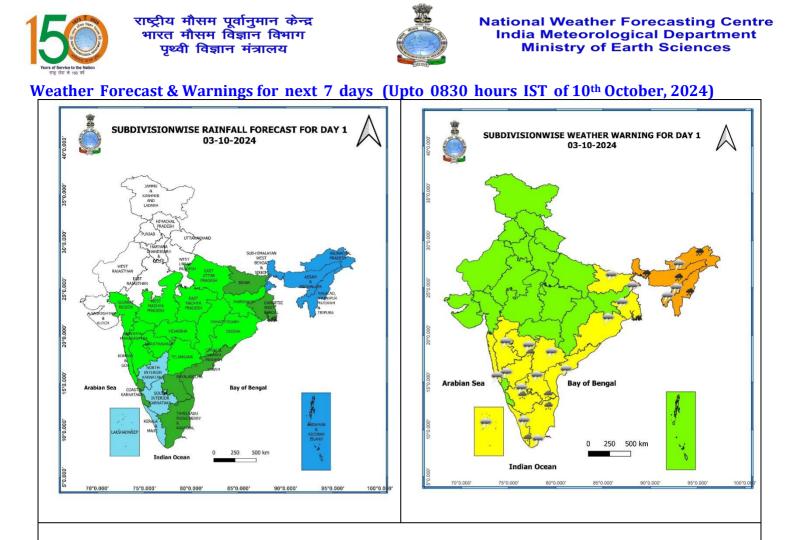
Withdrawal of Southwest Monsoon 2024



40°N

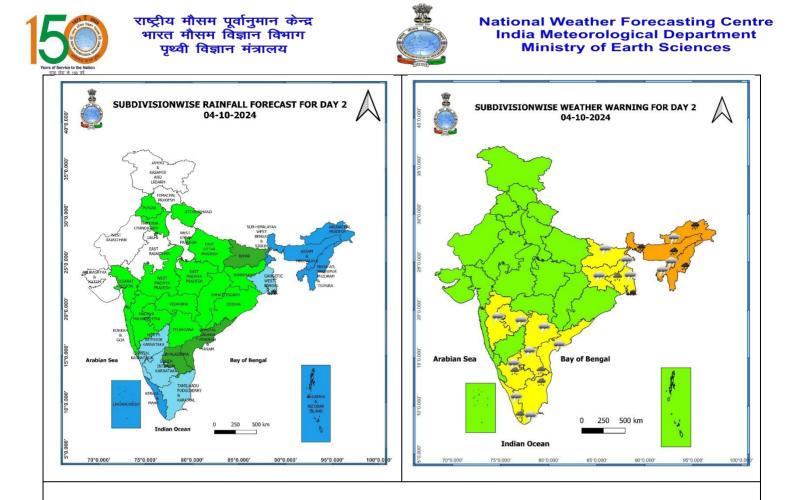
60°E 70°E 80°E 90°E 100°E Withdrawal of Southwest Monsoon 2024 20 Sept 20 Sept





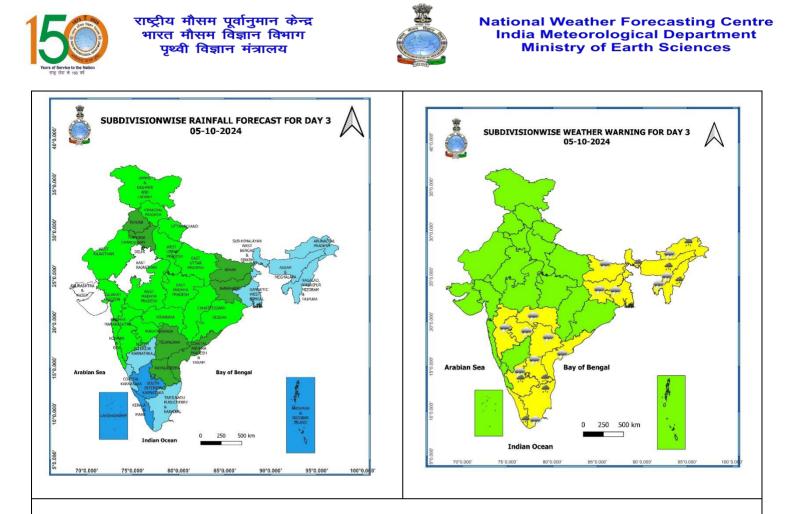
03 October (Day 1):

- ❖ Heavy to very Heavy rainfall (≥12 cm) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; Heavy rainfall (≥7 cm) at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, Interior Karnataka.
- Thunderstorm with lightning very likely at isolated places over West Bengal & Sikkim, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Interior Karnataka.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over Gulf of Mannar, most parts of eastcentral Bay of Bengal & adjoining parts of northeast Bay of Bengal. Fishermen are advised not to venture into these areas.



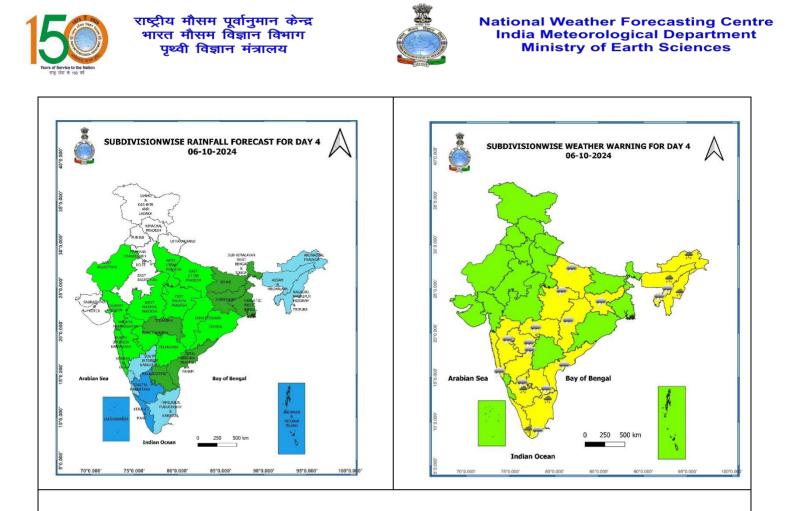
04 October (Day 2):

- ❖ Heavy to very Heavy rainfall (≥12 cm) very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim; Heavy rainfall (≥7 cm) very likely at isolated places over Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, South Interior Karnataka.
- Thunderstorm with lightning very likely at isolated places over West Bengal & Sikkim, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, South Interior Karnataka.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over Gulf of Mannar, most parts of eastcentral Bay of Bengal & adjoining parts of westcentral & northeast Bay of Bengal. Fishermen are advised not to venture into these areas.



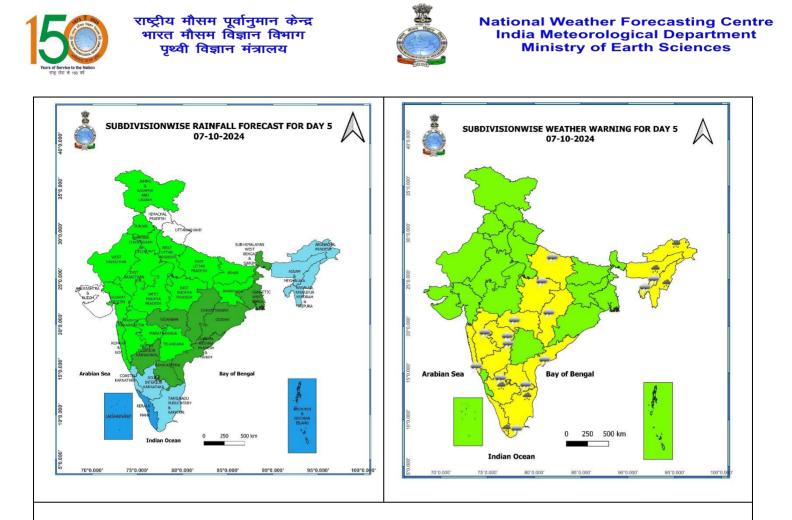
05 October (Day 3):

- ✤ Heavy rainfall (≥7 cm) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, South Interior Karnataka.
- Thunderstorm with lightning very likely at isolated places over Vidarbha, Gangetic West Bengal, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, South Interior Karnataka.



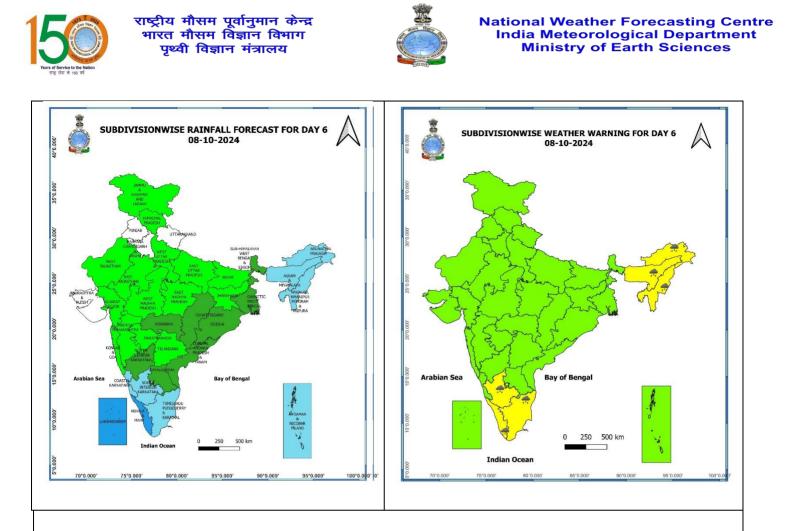
06 October (Day 4):

- ✤ Heavy rainfall (≥7cm) likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, South Interior Karnataka.
- Thunderstorm with lightning likely at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka.



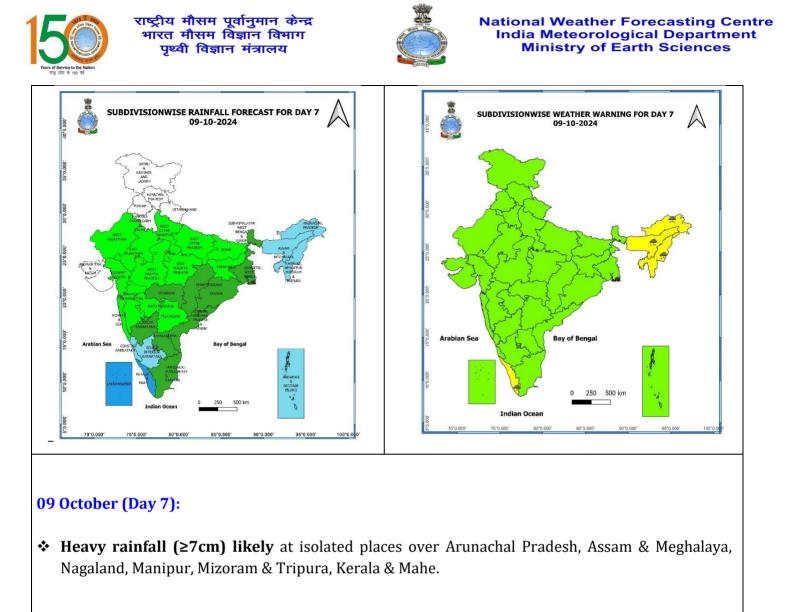
07 October (Day 5):

- ✤ Heavy rainfall (≥7cm) likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, South Interior Karnataka.
- Thunderstorm with lightning likely at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka.



08 October (Day 6):

✤ Heavy rainfall (≥7cm) likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, South Interior Karnataka.



Weather Outlook for subsequent 3 days (During 10th October- 12th October, 2024)

- ✤ Fairly widespread to widespread rainfall likely over Eastern and North Eastern India and Islands.
- ✤ Isolated to Scattered rainfall likely over remaining Peninsular and West coast of 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.





Impact due to

• **Isolated Heavy to Very Heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 03rd & 04th 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 and roadways 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/mud slips/land sinks/mud sinks.
- ✓ Damage to horticulture and standing crops in some areas due to inundation and wind.
- ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Action Suggested

- ✓ Judicious regulation of surface transports including railways and roadways.
- \checkmark Check for traffic congestion on your route before leaving for your destination.
- \checkmark 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 Heavy Rainfall likely over various parts of the country

- ✓ Make provision for draining out excess water from standing crop fields and fruit orchards to avoid water stagnation in Sub Himalayan West Bengal & Sikkim, Tamil Nadu, Kerala, Interior Karnataka, Telangana and North Eastern States.
- ✓ Keep the harvested produce at safer places.
- ✓ Provide mechanical support to horticultural crops & staking to vegetables.





Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

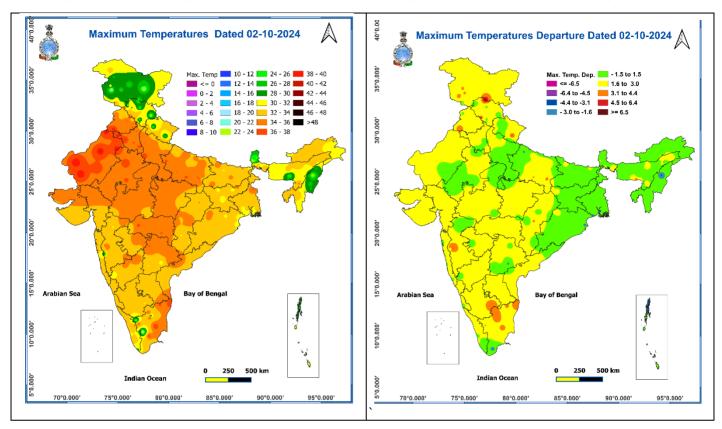
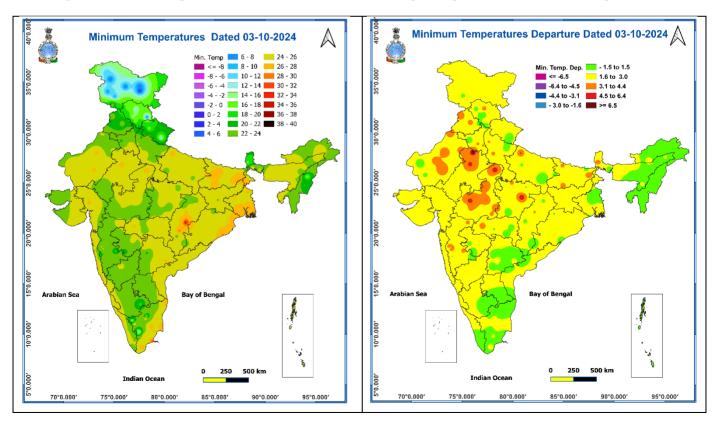


Fig. 3: Minimum Temperatures

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)

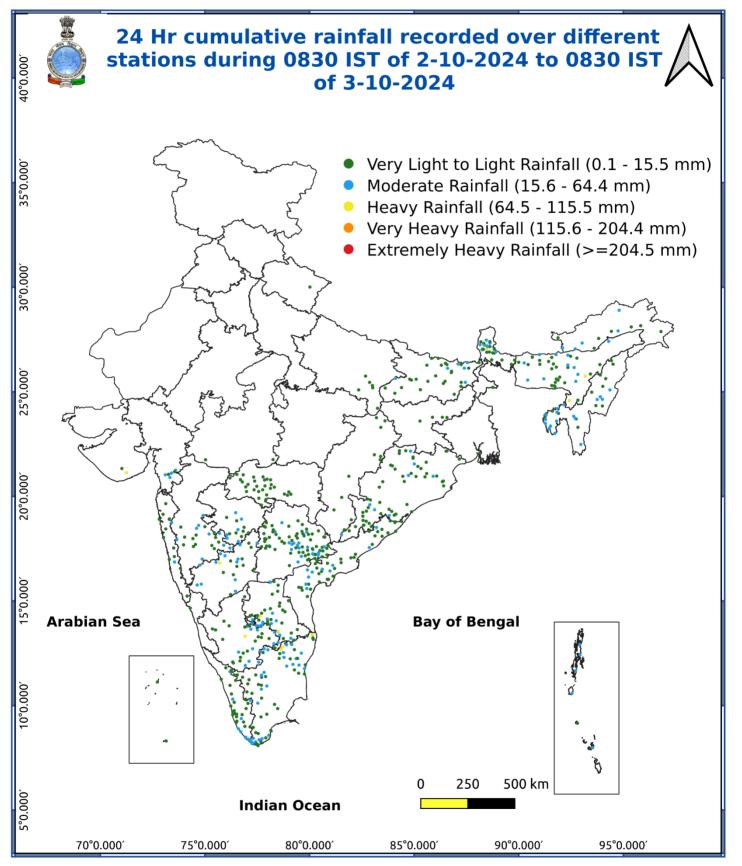


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Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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LEGENDS

/		
1. अंडमान और निकोबार द्वीपसमूह	1. Andaman & Nicobar Islands	
2. अरुणाचल प्रदेश	2. Arunachal Pradesh	
3. असम और मेघालय	3. Assam & Meghalaya	
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा	4. Nagaland, Manipur, Mizoram & Tripura	
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम	5. Sub-Himalayan West Bengal & Sikkim	
6. गंगीय पश्चिम बंगाल	6. Gangetic West Bengal	
7. ओडिशा	7. Odisha	
8. झारखंड	8. Jharkhand	
9. बिहार	9. Bihar	
10. पूर्वी उत्तर प्रदेश 🥂 🚺	10. East Uttar Pradesh	
11. पश्चिम उत्तर प्रदेश	11. West Uttar Pradesh	
12. उत्तराखंड	12. Uttarakhand	
13. हरियाणा, चंडीगढ़ और दिल्ली 17 5 11 5 5 5	3 13. Haryana, Chandigarh & Delhi	
14. पंजाब	14. Punjab	
15. हिमाचल प्रदेश	15. Himachal Pradesh	
16. जम्मू और कश्मीर और लद्दाख 🔨 र्र्19 🏅 20 🏹 😽 🎸 🎸 🧸	16. Jammu & Kashmir and Ladakh	
17. पश्चिम राजस्थान	17. West Rajasthan	
18. पूर्वी राजस्थान	18. East Rajasthan	
19. पश्चिम मध्य प्रदेश 23 (24 25)	19. West Madhya Pradesh	
20. पूर्वी मध्य प्रदेश	20. East Madhya Pradesh	
21. गुजरात 🔰 33 🕹 🖓 28	21. Gujarat	
22. सौराष्ट्र 32 हि30	22. Saurashtra	
23. कोंकण और गोवा 💦 🖓 🖓 🦯 👔	23. Konkan & Goa	
24. मध्य महाराष्ट्र	24. Madhya Maharashtra	
25. मराठवाड़ा र्व ी अपने के बिला के ब	25. Marathwada	
26. विदर्भ 36	26. Vidarbha	
27. छत्तीसगढ़	27. Chhattisgarh	
28. तटीय आंध्र प्रदेश और यनम	28. Coastal Andhra Pradesh & Yanam	
29. तेलंगाना	29. Telangana	
30. रायलसीमा	30. Rayalaseema	
31. तमिलनाडु, पुडुचेरी और कराईकल	31. Tamilnadu, Puducherry & Karaikal	
32. तटीय कर्नाटक	32. Coastal Karnataka	
33. आतंरिक उत्तरी कर्नाटक	33. North Interior Karnataka	
34. आतंरिक दक्षिणी कर्नाटक	34. South Interior Karnataka	
35. केरल और माहे	35. Kerala & Mahe	
36. लक्षद्वीप	36. Lakshadweep	
SPATIAL DISTRIBUTION (% of Sta	itions reporting)	

A HAL DISTRIBUTION

	Category		6 Stations Category		
Widespree	ad (WS/Most Places)	26-50	Scattered (SCT/A Few Places)		
Fairly Widesp	read (FWS/Many Places)	1-25	Isolated (ISOL)		
		Cold Wa	COLOUR CO	COLOUR CODED WARNING	
	Teavy Show			ing (No Action)	
ı	Dust Storm	– 🦵 Cold Da	Cold Day Watch (Be Aware) Ground Frost Alert (Be Prepared To Take Action)		
y Rain	+ Heat Wave	Ground			
	+ Warm Night	Warning (Take Action)			
	°_ + Hot Day		Proba	bilistic Forecast	
، Lightning			Terms	Probability of Occurrence (%	
	📘 Hot & Humid		Likely	< 25 25 - 50	
g Winds	Strong Surface Win	4.	Very Likely Most Likely	<u>50 - 75</u> > 75	
	F airly Widesp / Rain Heavy Rain Lightning	Widespread (WS/Most Places) Fairly Widespread (FWS/Many Places) Fairly Widespread (FWS/Many Places) Heavy Snow Pain Image: Place Place Place Image: Place Place Place Image: Place Place Place Image: Place Place Place Place Image: Place Place Place Place Image: Place Place Place Place Place Image: Place Place Place Place Place Place Place Image: Place P	Widespread (WS/Most Places) 26-50 Fairly Widespread (FWS/Many Places) 1-25 Image: Heavy Snow - Image: Heavy Snow - Image: Dust Storm - Image: Rain Image: Heavy Snow Image: Heavy Snow - Image: Dust Storm - Image: Rain Image: Heavy Rain Image: Heavy Rain Image: Heavy Rain Image: Heavy Rain Image: Heavy Rain Image: Heavy Rain Image: Hot Day Image: Hot & Humid	Widespread (WS/Most Places) 26-50 Scattered (SCT Fairly Widespread (FWS/Many Places) 1-25 Isolate Image: Place	





	Heavy: 64.5 to 115.5 mm/cm *
ain/ Snow *	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.
leat Wave	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C (b). Based on Actual maximum temperature
neat wave	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	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
gitt	Severe Warm Night: When minimum temperature departure >6.4 °C.
	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
Cold Wave	(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 $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ C for hilly regions Based on departure
Cold Day	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
Fog	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)
	A strong wind that rises suddenly, lasts for atleast 1 minute.
Squall	Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph
equan	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
Sea State	High to very high: Wind speed 43-117 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 02-07 kingir (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)