



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Sunday, September 22, 2024 Time of Issue: 1315 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems:

- ✓ Conditions are becoming favourable for withdrawal of **Southwest Monsoon** from parts of West Rajasthan and Kachchh around from 23rd September.
- ✓ An **east-west trough** runs from Andhra Pradesh coast to south coastal Myanmar with two embedded upper air cyclonic circulations, one over Westcentral Bay of Bengal and another over south coastal Myanmar & neighbourhood and extends upto mid tropospheric levels. The later upper air cyclonic circulation is likely to move west-northwestwards.
- ✓ Under the influence of these two upper air cyclonic circulations, a **low-pressure** area is likely to form over Westcentral Bay of Bengal & neighbourhood around 23rd September, 2024.

Forecast & Warnings (upto 7 days):

South Peninsular India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Coastal Karnataka during the week; Isolated to Scattered light to moderate rainfall very likely over Tamil Nadu, Puducherry & Karaikal during the week; Scattered to Fairly widespread light to moderate rainfall very likely over the remaining south peninsular India during the week.
- ✓ Isolated **heavy rainfall** very likely over South Interior Karnataka on 22nd & 23rd; Coastal Karnataka, Kerala & Mahe on 23rd & 24th; Telangana, Coastal Andhra Pradesh & Yanam during 22nd-25th; Rayalaseema, North Interior Karnataka during 22nd-24th September.

Central India:

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Vidarbha, Chhattisgarh during the week; Isolated to Scattered light to moderate rainfall during next 3 days over Madhya Pradesh & Scattered to Fairly widespread light to moderate rainfall during the next subsequent 4 days over the same region.
- ✓ Isolated heavy rainfall very likely over Vidarbha and Chhattisgarh during 22nd-26th; Madhya Pradesh during 24th -27th September.

East & Northeast India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Odisha, Andaman & Nicobar Islands, West Bengal & Sikkim; Isolated to Scattered light to moderate rainfall over Bihar, Jharkhand during next 3 days and Scattered to Fairly widespread light to moderate rainfall during the next subsequent 4 days over the same region; Isolated to Scattered light to moderate rainfall very likely over northeast India during next 2 days and Fairly widespread to widespread light/moderate light to moderate rainfall during the next subsequent 5 days over the same region.
- ✓ Isolated **heavy rainfall** very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during 23rd-28th; Odisha during 23rd-26th; Arunachal Pradesh during 24th-28th; Sub-Himalayan West Bengal & Sikkim, Jharkhand during 25th-27th; Gangetic West Bengal on 25th & 26th; Bihar on 27th & 28th September.
- ✓ Hot and Humid Weather very likely over Sub-Himalayan West Bengal & Sikkim on 22nd; Northeast India on 22nd & 23nd September.

West India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over West India during the week except Saurashtra & Kutch and Gujarat Region where Isolated to Scattered light to moderate rainfall very likely during next 2 days & Scattered to Fairly widespread light to moderate rainfall very likely during the next subsequent 4 days.
- ✓ Isolated **heavy to very heavy rainfall** very likely over Konkan & Goa during 23rd-26th; Madhya Maharashtra during 23rd-27th; Marathwada during 23rd-25th September.
- ✓ Isolated **heavy rainfall** very likely over Gujarat Region on 22nd & during 25th-27th September.

Northwest India

✓ Isolated to Scattered light to moderate rainfall very likely over northwest India except West Rajasthan where mainly dry weather likely to prevail during the week.







Main Weather Observations:

- ❖ Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Vidarbha, Telangana and Andaman & Nicobar Islands; at many places over Nagaland, Manipur, Mizoram & Tripura and Marathwada; at a few places over Chhattisgarh, West Bengal & Sikkim, Odisha, Konkan & Goa, Madhya Maharashtra, Lakshadweep and Coastal & North Interior Karnataka; at isolated places over Uttarakhand, East Rajasthan, Madhya Pradesh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka.
- Heavy rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy rainfall at isolated places over Rayalaseema, Telangana, South Interior Karnataka, Tamil Nadu, Marathwada and Andaman & Nicobar Islands.
- Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Rayalaseema: Gooty (dist Anantapuramu) 10; Telangana: Bhuvanagiri (dist Y. Bhuvanagiri) 9; South Interior Karnataka: Midigeshi (dist Tumakuru) 8; Tamil Nadu: Kattumayilur (dist Cuddalore) 7; Marathwada: Bhum (dist Dharashiv) 7; Andaman & Nicobar Islands: Port Blair (dist South Andaman) 7.
- ❖ Minimum Temperature Departures (as on 22-09-2024): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Rajasthan, Madhya Pradesh; above normal (1.6°C to 3.0°C) at a few places over Tamil Nadu, Puducherry & Karaikal and Gujarat Region; at isolated places over Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, Odisha, Vidarbha, West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra, Saurashtra & Kutch and Coastal Andhra Pradesh & Yanam. These are below normal (-1.6°C to -3.0°C) at isolated places over Telangana and near normal over rest parts of the country. Today, the lowest minimum temperature of 21.8°C is reported at Dhar (West Madhya Pradesh) over the plains of the country. (Fig.4)
- * Maximum Temperature Departures (as on 21-09-2024): Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Assam & Meghalaya; at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Jammu division; appreciably above normal (3.1°C to 5.0°C) at isolated places over Gangetic West Bengal, Bihar, Odisha, Odisha, Vidarbha, West Madhya Pradesh, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Himachal Pradesh and Uttarakhand; above normal (1.6°C to 3.0°C) at most places over East Madhya Pradesh; at many places over East Uttar Pradesh and Punjab; at a few places over South Interior Karnataka and Konkan & Goa; at isolated places over Saurashtra & Kutch, East Rajasthan, Haryana-Chandigarh-Delhi, Jharkhand, Rayalaseema, Madhya Maharashtra, Marathwada and Telangana. These were below normal (-1.6°C to 3.0°C) at isolated places over Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country. Yesterday, the highest Maximum Temperature of 39.2°C was reported at Madurai (Tamilnadu) over the country. (Fig. 2)





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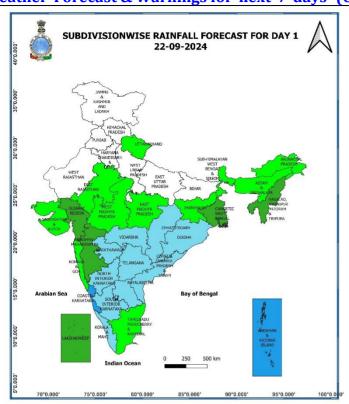
Meteorological Analysis (Based on 0830 hours IST)

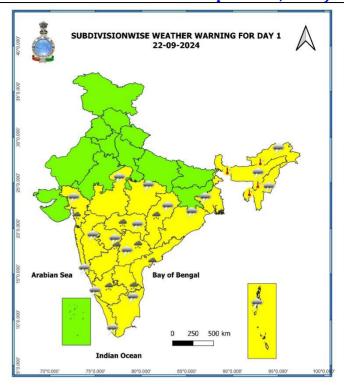
- ❖ Conditions are becoming favourable for withdrawal of **Southwest Monsoon** from parts of West Rajasthan and Kachchh around from 23rd September.
- ❖ The **Monsoon trough** at mean sea level now passes through Bikaner, Guna, Sagar, Bilaspur, Chandbali and thence southeastwards to westcentral Bay of Bengal.
- ❖ An **east-west trough** runs from Andhra Pradesh coast to south Coastal Myanmar with two embedded upper air cyclonic circulations, one over **Westcentral Bay of Bengal** and another over **south Coastal Myanmar & neighbourhood** and extends upto 5.8 Km above mean sea level. The later upper air cyclonic circulation is likely to move west-northwestwards.
- ❖ Under the influence of these two upper air cyclonic circulations, a **low-pressure area** is likely to form over Westcentral Bay of Bengal & neighbourhood around 23rd September, 2024.
- ❖ The **cyclonic circulation** over Tripura & neighbourhood at 0.9 km above mean sea level has become less marked.
- ❖ The **cyclonic circulation** over north Rajasthan extending upto 1.5 km above mean sea level has become less marked.





Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 29th September, 2024)



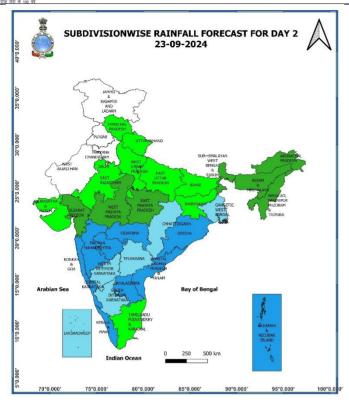


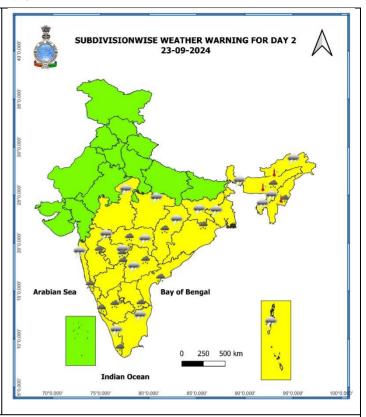
22 September (Day 1):

- **♦ Heavy rainfall (≥7 cm)** very likely at isolated places over Vidarbha, south Chhattisgarh, north Gujarat, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka.
- Thunderstorm accompanied gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Telangana, Gangetic West Bengal, Andaman & Nicobar Islands and Kerala & Mahe; with lightning very likely at isolated places over Chhattisgarh, Madhya Pradesh, Vidarbha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and North Interior Karnataka.
- ❖ Hot & humid weather very likely at isolated places Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura.
- ❖ Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over gulf of Mannar, off Sri Lanka coast, many parts of south and adjoining parts of central Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over western parts of southwest Arabian sea adjoining west central Arabian sea along and off Somalia coast. Fishermen are advised not to venture into these areas.



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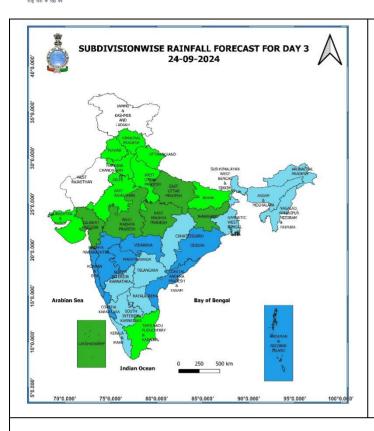


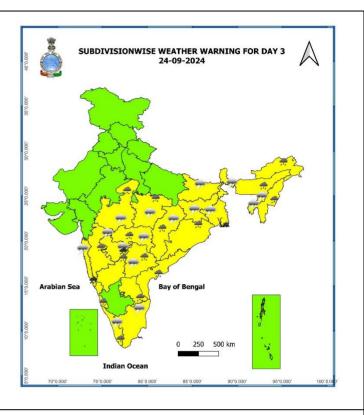
23 September (Day 2):

- ❖ Heavy rainfall (≥7 cm) very likely at isolated places over Vidarbha, Chhattisgarh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Coastal & North Interior Karnataka.
- ❖ Thunderstorm accompanied gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Telangana, Andaman & Nicobar Islands and Kerala & Mahe; with lightning very likely at isolated places over Chhattisgarh, Madhya Pradesh, Vidarbha, West Bengal & Sikkim, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and North Interior Karnataka.
- ❖ Hot & humid weather very likely at isolated places over Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura.
- ❖ Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over some parts of eastcentral Arabian sea, along and off Kerala, Karnataka coasts, adjoining Lakshadweep area, over gulf of Mannar, off Sri Lanka coast, many parts of south and adjoining parts of westcentral Bay of Bengal, many parts of eastcentral Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over western parts of southwest Arabian sea adjoining westcentral Arabian sea along and off Somalia coast. Fishermen are advised not to venture into these areas.



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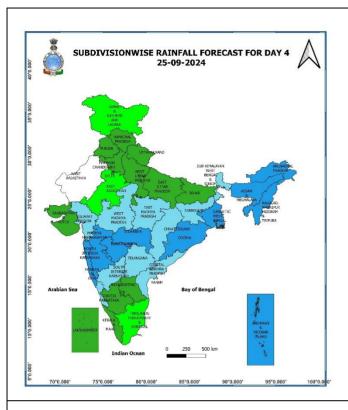


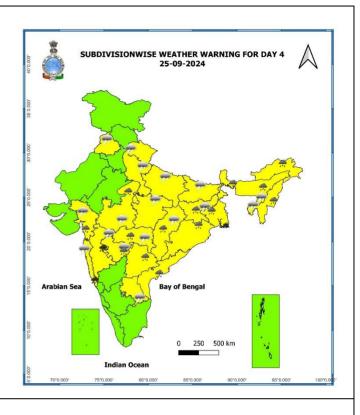
24 September (Day 3):

- ❖ Heavy to very Heavy rainfall (≥12 cm) very likely at isolated places over Konkan & Goa and Marathwada; Heavy rainfall (≥7 cm) very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Coastal & North Interior Karnataka.
- ❖ Thunderstorm accompanied gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Telangana, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe; with lightning very likely at isolated places over Chhattisgarh, Madhya Pradesh, Vidarbha, Gangetic West Bengal, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and North Interior Karnataka.
- ❖ Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail along and off Kerala, Karnataka coasts and adjoining Lakshadweep, Comorin areas, along and off goa, Konkan coasts, over gulf of Mannar, off Sri Lanka coast, many parts of south and adjoining parts of central Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over western parts of southwest Arabian sea adjoining westcentral Arabian sea along and off Somalia coast. Fishermen are advised not to venture into these areas.







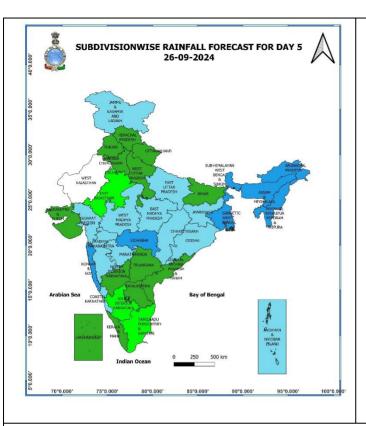


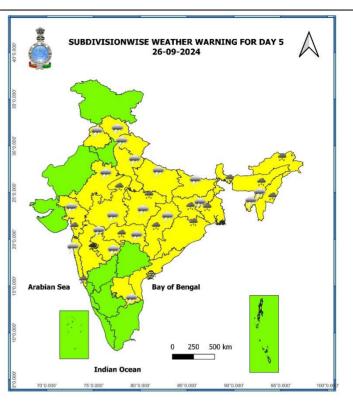
25 September (Day 4):

- ♣ Heavy to very Heavy rainfall (≥12 cm) very likely at isolated places over Konkan & Goa and Madhya Maharashtra; Heavy rainfall (≥7 cm) very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Gujarat Region, Coastal Andhra Pradesh & Yanam and Telangana.
- Thunderstorm accompanied with lightning very likely at isolated places over Chhattisgarh, Madhya Pradesh, Vidarbha, Uttarakhand, Punjab, Uttar Pradesh, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over along and off Maharashtra, Konkan, goa coasts, over gulf of Mannar, off Sri Lanka coast, many parts of south and central Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over western parts of southwest Arabian sea adjoining few parts of west central Arabian sea along and off Somalia coast. Fishermen are advised not to venture into these areas.







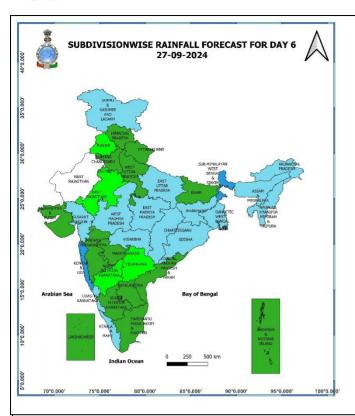


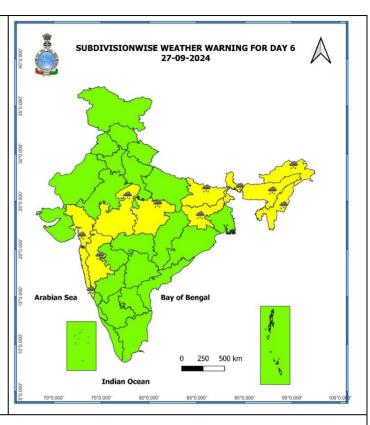
26 September (Day 5):

- ❖ Heavy to very Heavy rainfall (≥12 cm) very likely at isolated places over Madhya Maharashtra; Heavy rainfall (≥7 cm) very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Gujarat Region.
- Thunderstorm accompanied with lightning very likely at isolated places over Chhattisgarh, Madhya Pradesh, Vidarbha, Himachal Pradesh, Uttarakhand, Punjab, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over gulf of Mannar, off Sri Lanka coast, most parts of southwest and westcentral Bay of Bengal, adjoining parts southeast and eastcentral, northwest Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over western parts of southwest Arabian sea adjoining few parts of westcentral Arabian sea along and off Somalia coast. Fishermen are advised not to venture into these areas.



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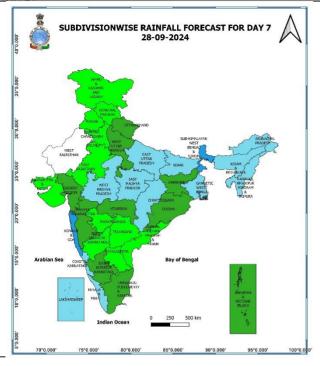
27 September (Day 6):

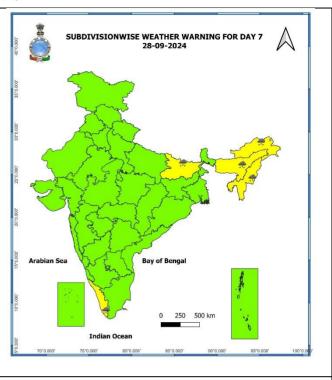
❖ Heavy rainfall (≥7 cm) very likely at isolated places over Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra and Gujarat Region.





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28 September (Day 7):

❖ Heavy rainfall (≥7 cm) very likely at isolated places over Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.

Weather Outlook for subsequent 3 days (During 29th September – 01st October, 2024)

- ❖ Dry weather likely to prevail over West Rajasthan, north Gujarat, Punjab, Haryana-Chandigarh-Delhi, and Isolated rainfall activity likely over Himachal Pradesh, Uttarakhand, East Rajasthan and Uttar Pradesh.
- ❖ Isolated to Scattered rainfall likely over Central, Eastern, North Eastern and Peninsular India.
- 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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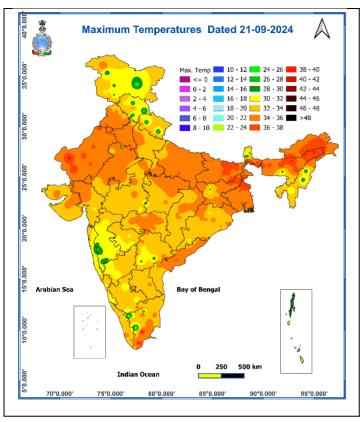
Agromet advisories for Heavy Rainfall and Gusty Winds likely over various parts of the country

- ✓ Make provision for draining out excess water from standing crop fields and fruit orchards to avoid water stagnation in Tamil Nadu, Interior Karnataka, Andhra Pradesh, Telangana, Chhattisgarh, Maharashtra 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



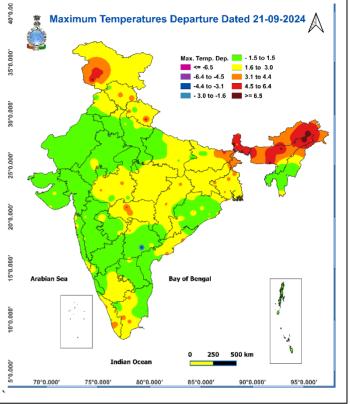
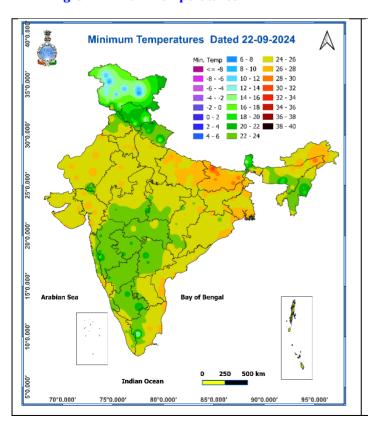


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



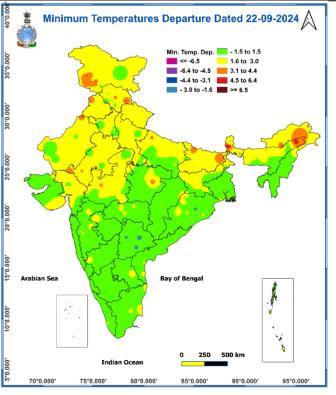
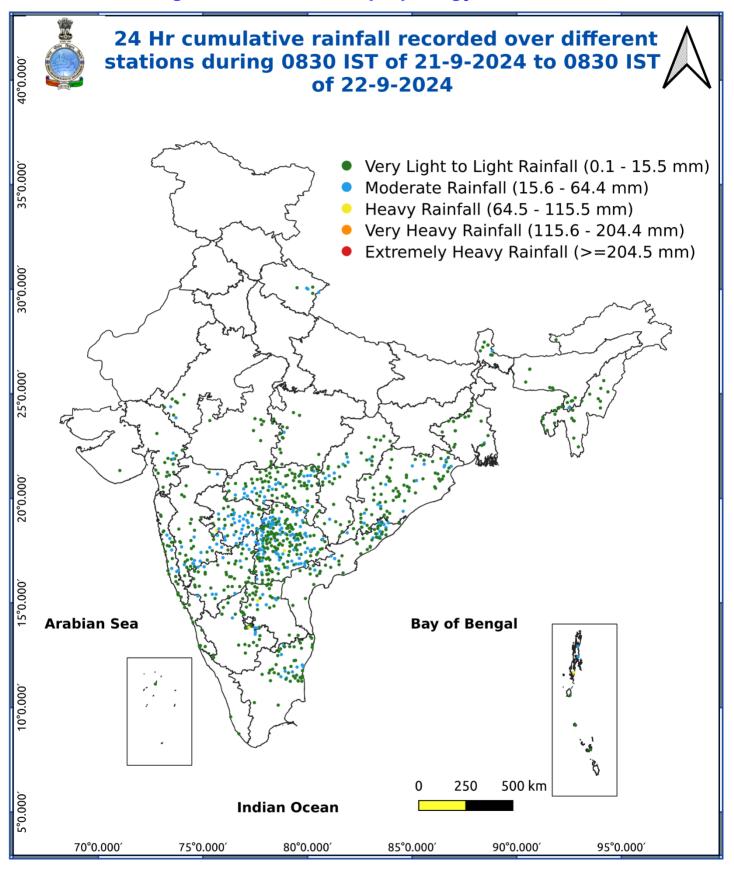






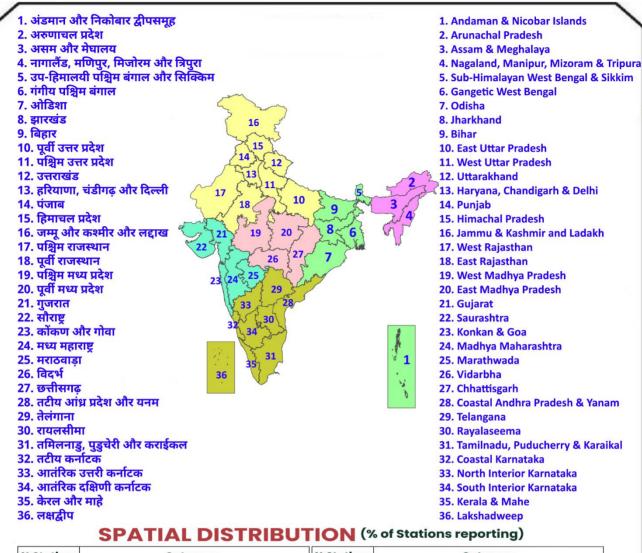
Fig. 5: Accumulated Rainfall (mm) during past 24 hours





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LEGENDS



% 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)			
Fog		Heavy Snow	_ Cold Wa	ve	COLOUR CO	DED WARNING	
— 106			ı		No Warning (No Action)		
Rain Heavy Rain		ي Dust Storm	- Cold Day		Watch (Be Aware)		
••• Very Heavy Rain		+ Heat Wave	Ground Frost		Alert (Be Prepared To Take Action)		
Extremely	Heavy Rain	+ Warm Night			Warning (Take Action)		
Thunder & Lightning Hailstorm		+ Hot Day				Probabilistic Forecast	
		i not buy			Terms	Probability of Occurrence (%)	
		0			Unlikely	< 25	
		P Hot & Humid			Likely	25 - 50	
					Very Likely	50 - 75	
Dust Raising Winds		Strong Surface Winds		Most Likely	>75		





	DEFINITION/CRITERIA					
	Heavy: 64.5 to 115.5 mm/cm *					
Rain/ 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.					
	Severe Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.					
Heat Wave	(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	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 ≤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 ≤10°C for plains and ≤0°C for hilly regions					
Cold Day	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					
	Severe Cold Day. Maximum Temperature Departure from Horman 2 -0.5 C					
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km					
Fog	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					
hunderstorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)					
Dust/Sand						
	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and					
Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.					
Storm	lce deposits on ground					
	turbulent wind.					
Storm	lce deposits on ground Air temperature ≤4°C (over Plains)					
Frost	lce deposits on ground					
Storm	lce 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					
Frost	lce 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					
Frost	lce 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					
Frost Squall	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					
Frost	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					
Frost Squall	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					
Frost Squall	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 (>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)					
Frost Squall Sea State	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 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)					
Frost	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 (>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)					