



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Tuesday, October 8, 2024 Time of Issue: 1330 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

On further Withdrawal of Southwest Monsoon

- ✓ The **line of withdrawal of Southwest Monsoon** continues to pass through 29°N/84°E, Nautanwa, Sultanpur, Panna, Narmada Puram, Khargone, Nandurbar, Navsari and 20°N/70°E.
- ✓ Conditions are favourable for further **withdrawal of Southwest Monsoon** from remaining parts of Gujarat, Madhya Pradesh and some more parts of Maharashtra during next 2-3 days.

Weather Systems:

- ✓ Yesterday's **cyclonic circulation** over south Kerala, lay over Lakshadweep & adjoining southeast Arabian Sea extending upto middle tropospheric levels at 0830 hrs IST of today. A trough runs from this cyclonic circulation to north coastal Tamil Nadu in lower tropospheric levels.
- ✓ Under their influence, a **low pressure area** is likely to form over Lakshadweep and adjoining southeast & eastcentral Arabian Sea around 09th October. It is likely to move northwestwards and intensify further into a **depression** over central Arabian Sea during subsequent 3 days.

Forecast & Warnings (upto 7 days):

South Peninsular India

- ✓ Fairly widespread to widespread light to moderate rainfall very likely over Lakshadweep, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal; Scattered to fairly widespread light to moderate rainfall very likely over Coastal Karnataka, South Interior Karnataka; Isolated to Scattered light to moderate rainfall very likely over North Interior Karnataka, Rayalaseema, Telangana, Coastal Andhra Pradesh & Yanam during the week.
- ✓ **Isolated heavy to very heavy rainfall** very likely over Kerala & Mahe on 08th October and **heavy rainfall** during subsequent 6 days.
- ✓ **Isolated heavy to very heavy rainfall** very likely over Lakshadweep on 08th October and **heavy rainfall** on 09th.
- ✓ **Isolated heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal during the week; over Rayalaseema and Coastal Karnataka on 8th & 9th; and over South Interior Karnataka on 08th & 11th October.

Northeast India

- ✓ Scattered to Fairly widespread light to moderate rainfall very likely over North East India during the week.
- ✓ **Isolated heavy rainfall** very likely over Arunachal Pradesh and Assam & Meghalaya during 08th -11th and over Nagaland, Manipur, Mizoram & Tripura on 09th October & Tripura on 08th October.

Northwest, West, East & 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 most places over Lakshadweep; at many places over Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Karnataka; at a few places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Konkan & Goa, Coastal Andhra Pradesh & Yanam and South Interior Karnataka; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand. Rajasthan, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Odisha, Madhya Maharashtra, Marathwada, Gujarat state, Rayalaseema, Telangana and North Interior Karnataka.
- Heavy rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to very Heavy rainfall with extremely heavy rainfall at isolated places over Kerala, Sub-Himalayan West Bengal; Heavy to very Heavy rainfall at isolated places over Jharkhand; Heavy rainfall at isolated places over Lakshadweep, Arunachal Pradesh, Coastal Karnataka and Bihar.
- ❖ Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Kerala & Mahe: Quilandi (Kozhikode district) 22. Urumi (Kozhikode district) 15, Vadakara (Kozhikode district) 11, Lower Sholayar (Thrissur district) & Vadakara (Kozhikode district) 10 each, Kozhikode 9, Irikkur (Kannur district) 8, Mahe (Puducherry UT) & Cheruvanchery (Kannur district) 7 each; Sub-Himalayan West Bengal: Buxaduar (dist Alipurduar) 21; Jharkhand: Godda (dist Godda) 12, Godda Kvk Aws (dist Godda) 10; Arunachal Pradesh: Sejosa (dist Pakke Kessang) 10; Tamil Nadu, Puducherry & Karaikal: Vint Worth Estate (dist The Nilgiris) 10, Taluk Office Pandalur (dist The Nilgiris), Varattupallam (dist Erode) 7 each; Coastal Karnataka: Kundapur (dist Udupi) 10; Bihar: Rajoun (dist Banka) 9, Bihar Shrif (dist Nalanda) 7.
- ❖ Minimum Temperature Departures (as on 08-10-2024): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over East Uttar Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Uttar Pradesh, Haryana-Chandigarh, Rajasthan, Gujarat state, East Madhya Pradesh and Bihar; above normal (1.6°C to 3.0°C) at a few places over Madhya Maharashtra and Vidarbha; at isolated places over Punjab, Himachal Pradesh, West Madhya Pradesh, Konkan & Goa, Chhattisgarh, Odisha, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Telangana, Coastal Andhra Pradesh & Yanam and Rayalaseema. Today, the lowest minimum temperature of 18.3°C is reported at Delhi Ridge (New Delhi) over the plains of the country. (Fig.4)
- ★ Maximum Temperature Departures (as on 07-10-2024): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Konkan & Goa and Vidarbha; above normal (1.6°C to 3.0°C) at a few places over Coastal Andhra Pradesh & Yanam and Gujarat Region; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, West Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Odisha, Gangetic West Bengal, Madhya Maharashtra and Telangana. These were below normal (-1.6°C to -3.0°C) at isolated places over Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal. Yesterday, the highest Maximum Temperature of 39.5°C was reported at Pokharan (West Rajasthan) over the country. (Fig. 2)





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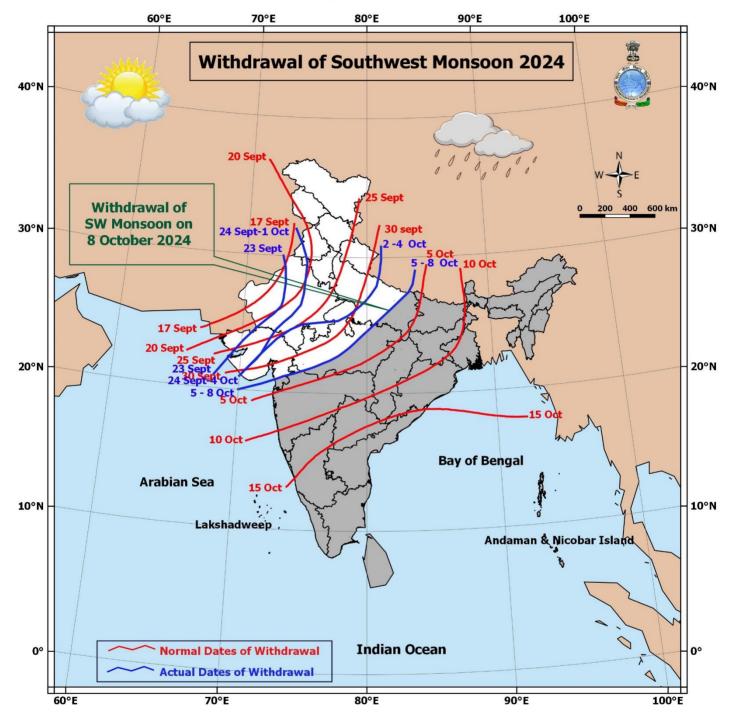
Meteorological Analysis (Based on 0830 hours IST)

- ❖ The **line of withdrawal of Southwest Monsoon** continues to pass through 29°N/84°E, Nautanwa, Sultanpur, Panna, Narmadapuram, Khargaon, Nandurbar, Navsari and 20°N/70°E.
- Conditions are favourable for further withdrawal of Southwest Monsoon from remaining parts of Gujarat, Madhya Pradesh and some more parts of Maharashtra during next 2-3 days.
- ❖ The **upper-air cyclonic circulation** over Lakshadweep & neighbourhood now lies over Lakshadweep and adjoining southeast Arabian Sea and extends upto 5.8 km above mean sea level.
- ❖ The **trough** now runs from the cyclonic circulation over Lakshadweep & adjoining southeast Arabian Sea to North coastal Tamil Nadu across Kerala and extends upto 1.5 km above mean sea level.
- ❖ Under their influence, **a low pressure area** is likely to form over Lakshadweep and adjoining Southeast & eastcentral Arabian Sea around 09th October. It is likely to move northwestwards and intensify further into **a dépression** over central Arabian Sea during subséquent 3 days.
- ❖ The **Western Disturbance** now seen as **a cyclonic circulation** over west Afghanistan & neighbourhood between 1.5 and 7.6 km above mean sea level.
- ❖ The **cyclonic circulation** over East Bangladesh & adjoining southeast Assam extending upto 1.5 km above mean sea level has become less marked.





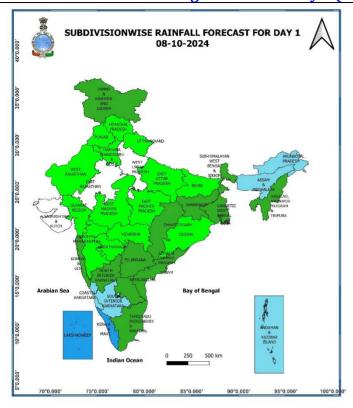
Withdrawal of Southwest Monsoon 2024

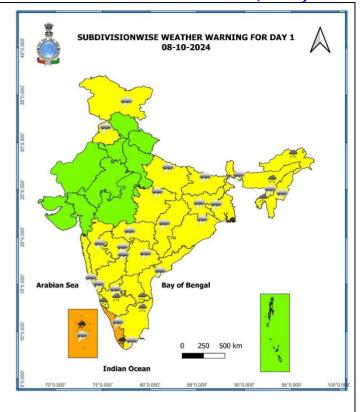






Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 15th October, 2024)



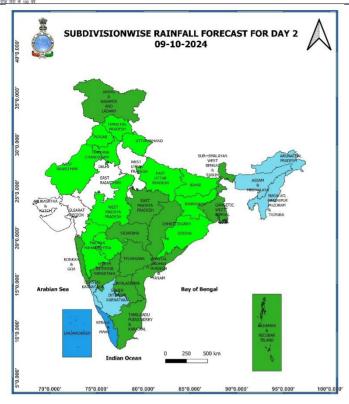


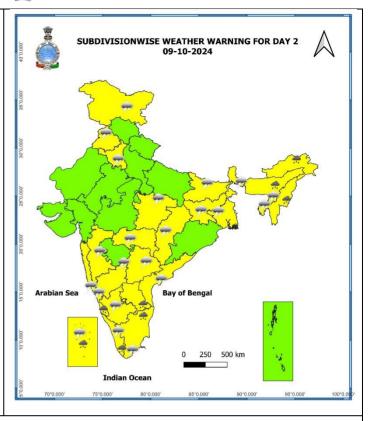
08 October (Day 1):

- ❖ Heavy to very Heavy rainfall (≥12 cm) very likely at isolated places over Kerala & Mahe and Lakshadweep; Heavy rainfall (≥7cm) very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Tripura, Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Coastal & South Interior Karnataka.
- Thunderstorm with lightning very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Coastal Andhra Pradesh & Yanam, Telangana and Karnataka.
- ❖ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Maldives, Lakshadweep Comorin areas, many parts of southeast Arabian sea, along & off Kerala, Karnataka coasts, gulf of Mannar, over few parts of westcentral & adjoining few parts of southwest bay of Bengal. Fishermen are advised not to venture into these areas.



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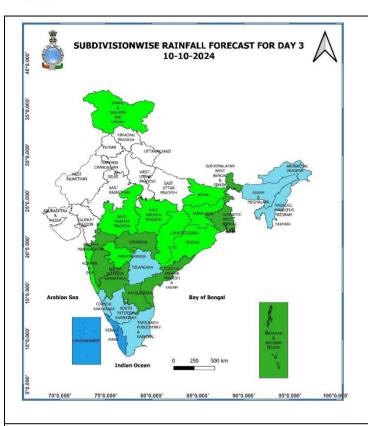


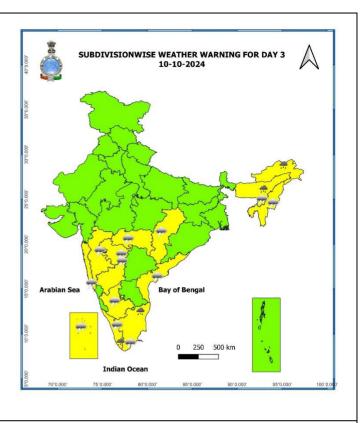
09 October (Day 2):

- ❖ Heavy rainfall (≥7cm) very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Rayalaseema and Coastal Karnataka.
- Thunderstorm with lightning very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana-Chandigarh-Delhi, East Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Coastal Andhra Pradesh & Yanam, Telangana and Karnataka.
- ❖ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Maldives, Lakshadweep Comorin areas, many parts of southeast Arabian sea, along & off Kerala, Karnataka coasts, gulf of Mannar. Fishermen are advised not to venture into these areas.



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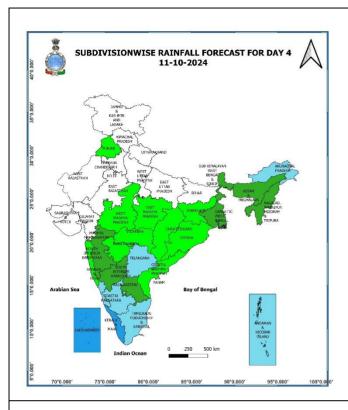


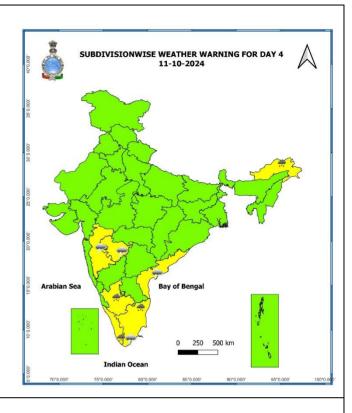
10 October (Day 3):

- ❖ Heavy rainfall (≥7cm) very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ Thunderstorm with lightning very likely at isolated places over Vidarbha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Coastal Andhra Pradesh & Yanam, Telangana and Interior Karnataka.
- ❖ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Maldives, Lakshadweep, Comorin areas, southeast Arabian sea & adjoining southwest Arabian sea, parts of eastcentral Arabian sea, along & off Kerala, Karnataka coasts, gulf of Mannar. Fishermen are advised not to venture into these areas.





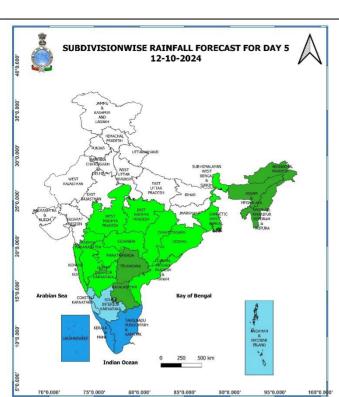


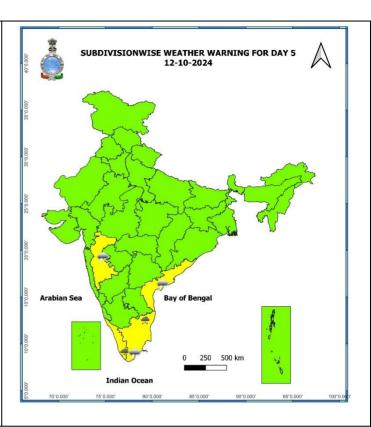


11 October (Day 4):

- **♦ Heavy rainfall (≥7cm)** very likely at isolated places over Arunachal Pradesh, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka.
- ❖ Thunderstorm with lightning very likely at isolated places over Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam.
- ❖ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Maldives, Lakshadweep, Comorin areas, southeast Arabian sea & adjoining southwest Arabian sea, parts of eastcentral Arabian sea, along & off Kerala, Karnataka coasts, gulf of Mannar. Fishermen are advised not to venture into these areas.





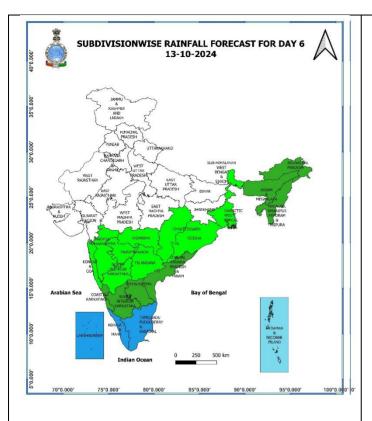


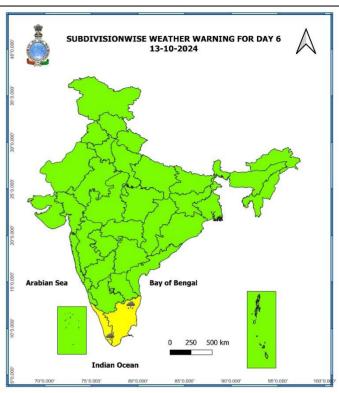
12 October (Day 5):

- **♦ Heavy rainfall (≥7cm)** very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm with lightning very likely at isolated places over Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam.
- ❖ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Maldives, Lakshadweep, Comorin areas & adjoining southeast Arabian sea, along & off Kerala, coast, gulf of Mannar. Fishermen are advised not to venture into these areas.



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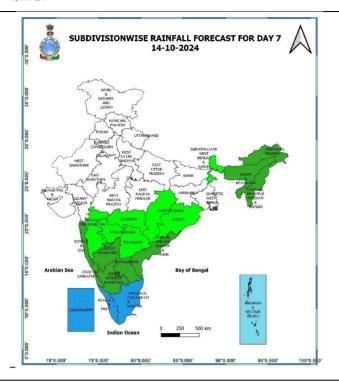


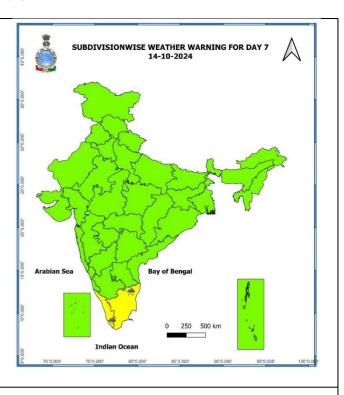
13 October (Day 6):

❖ Heavy rainfall (≥7cm) very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.



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14 October (Day 7):

❖ Heavy rainfall (≥7cm) very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

Weather Outlook for subsequent 3 days (During 15th October - 17th October, 2024)

- ❖ Fairly widespread to widespread rainfall likely over Peninsular and adjoining Central India and Islands.
- ❖ Scattered to fairly widespread rainfall over East and Northeast 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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Impact due to

- Isolated heavy to very heavy rainfall very likely over Kerala & Mahe and Lakshadweep on 08th October.
- No **Flash flood** risk likely in next 24 hours.

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

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

- ✓ In **Tamil Nadu**, drain out excess water from rice nurseries and recently transplanted rice fields; postpone harvesting of matured millet crops.
- ✓ In **Kerala**, postpone harvesting of *virippu* paddy; provide mechanical support to banana.
- ✓ Make necessary arrangements for draining out excess water from standing crop fields and fruit orchards to avoid water stagnation in Kerala, Coastal and South Interior Karnataka, Rayalaseema and North Eastern States.
- ✓ Keep the harvested produce at safer places.
- ✓ Provide mechanical support to horticultural crops & staking to vegetables.





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Flash Flood Guidance (Annexure I)

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 09-10-2024:

No Flash flood risk likely in next 24 hours.

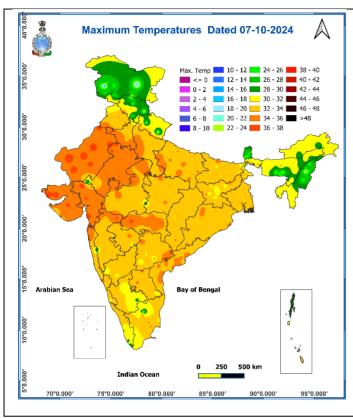






Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures



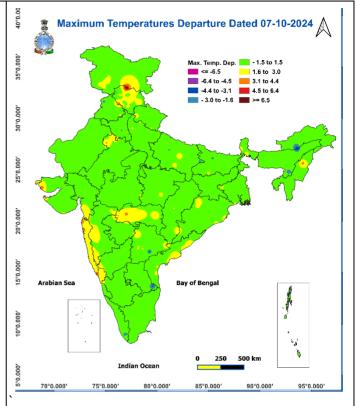


Fig. 3: Minimum Temperatures

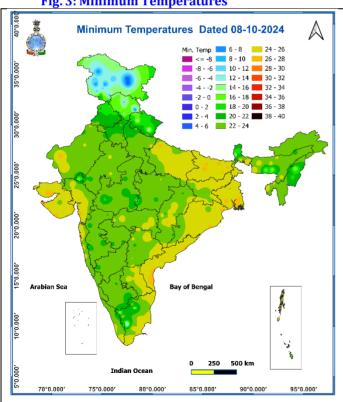


Fig. 4: Departure of Minimum Temperatures

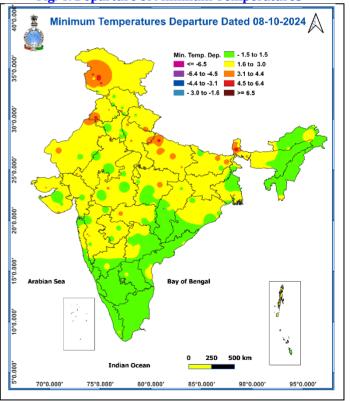
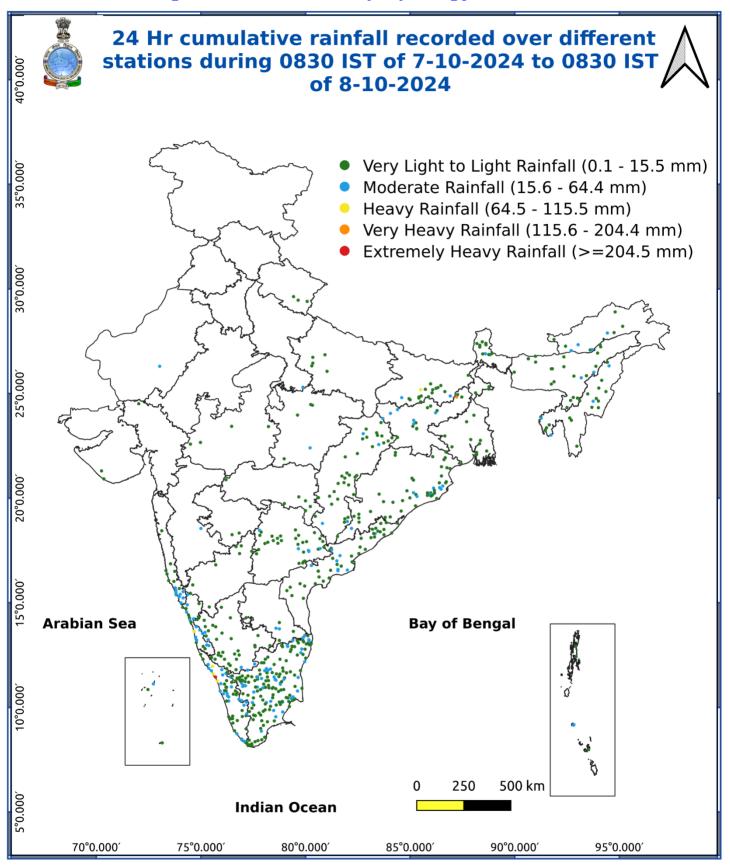






Fig. 5: Accumulated Rainfall (mm) during past 24 hours

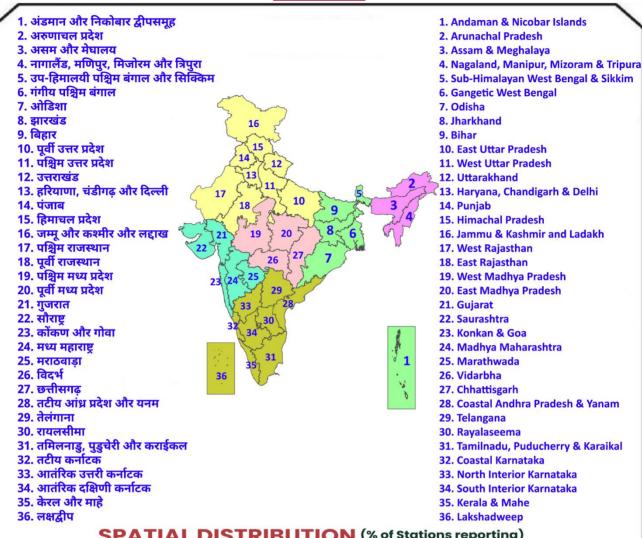


Sust Raising Winds



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LEGENDS



SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations		Category	% Stations	Category		gory
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 CODED WARNING	
		ineary one in	1		No Warning (No Action)	
Heavy Rain		ي Dust Storm	- Cold Da	y	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		•1			Probabilistic Forecast	
		+ Hot Day			Terms	Probability of Occurrence (%
Hailstorm		hot & Humid			Unlikely Likely	< 25 25 - 50

Strong Surface Winds





	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	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					
Varm 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					
	When minimum temperature of a station ≤10°C for plains and ≤0°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					
	Dhannan of and the plate are and disciplined the basic and the basic and the basic and the second of					
	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					
hunderstorm	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					
	A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph					
Squall	Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph					
Squall	Moderate: Wind speed 52-61 kmph					
Squall	Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph					
	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					
Squall Sea State	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					
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Sea State	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)					
	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)					