



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Tuesday, August 13, 2024 Time of Issue: 1400 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems

- ✓ The **Monsoon trough** is near its normal position at mean sea level. It is likely to oscillate near its normal position during most days of the week.
- ✓ A **cyclonic circulation** lies over northeast Rajasthan & neighbourhood extending upto middle tropospheric levels. A trough runs from this cyclonic circulation to Bangladesh in lower tropospheric levels.
- ✓ A **cyclonic circulation** lies over southeast Pakistan & adjoining Rajasthan at lower tropospheric levels.
- ✓ Another **cyclonic circulation** over Gujarat & neighbourhood in middle tropospheric levels.
- ✓ Another **cyclonic circulation** over northeast Assam lies in lower tropospheric levels.
- ✓ Another **cyclonic circulation** over south Bangladesh & neighbourhood extending upto middle tropospheric levels.
- ✓ Another trough runs from Rayalaseema to Comorin area in lower tropospheric levels.
- ✓ Another **cyclonic circulation** over south Sri Lanka & neighbourhood extending upto middle tropospheric levels.

Forecast & Warnings: (upto 7 days):

Northwest India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Himachal Pradesh & Uttarakhand; scattered to fairly widespread rainfall over Jammu-Kashmir, Haryana-Chandigarh-Delhi, Uttar Pradesh & Rajasthan during the week.
- ✓ Isolated **heavy rainfall** very likely over Himachal Pradesh & Uttar Pradesh during 13th-19th; Punjab on 14th; Uttarakhand during 14th-19th; West Rajasthan & Haryana-Chandigarh during 13th-16th; East Rajasthan during 15th-17th and Jammu division during 15th-19th August.
- ✓ Isolated **very heavy rainfall** also very likely over Uttarakhand on 13th; East Rajasthan on 13th & 14th August.

West & Central India

- Fairly widespread to widespread light/moderate rainfall very likely over Madhya Pradesh, Chhattisgarh, Konkan & Goa & Gujarat Region; scattered to fairly widespread rainfall over Vidarbha, Saurashtra & Kutch; isolated to scattered rainfall over Madhya Maharashtra & Marathwada during the week.
- ✓ Isolated **Heavy rainfall** very likely over Saurashtra & Kutch on 13th; Madhya Pradesh & Gujarat Region on 13th & 14th; Chhattisgarh during 13th 16th August.

East & Northeast India

- Fairly widespread to widespread light/moderate rainfall very likely over east India and scattered to fairly widespread rainfall over northeast during the week.
- ✓ Isolated **heavy rainfall** very likely over Arunachal Pradesh during 13th–15th; Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during 13th–16th; Bihar & Sub-Himalayan West Bengal & Sikkim during 13th–19th; Gangetic West Bengal on 14th & 17th; Jharkhand on 13th-14th & 17th-18th; Odisha during 13th-18th August.

South Peninsular India:

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Kerala & Mahe, Lakshadweep & South Interior Karnataka; scattered to fairly widespread rainfall over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Coastal & North Interior Karnataka during the week.
 - ✓ Isolated **heavy rainfall** very likely over Coastal Andhra Pradesh & Yanam on 13th; South Interior Karnataka on 13th, 16th & 17th; Rayalaseema during 13th-17th; Tamil Nadu, Puducherry & Karaikal during 14th-17th; Kerala & Mahe on 16th & 17th; Lakshadweep on 14th August.
 - ✓ Isolated **very heavy rainfall** also very likely over Tamil Nadu, Puducherry & Karaikal on 13th; Kerala & Mahe during 13th 15th; South Interior Karnataka on 14th & 15th August.



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Main Weather Observations:

- * Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Uttarakhand, Haryana-Chandigarh-Delhi, Uttar Pradesh ,East Rajasthan, Madhya Pradesh, Assam & Meghalaya, Andaman & Nicobar Islands, Jharkhand, Konkan & Goa, Gujarat state and Kerala & Mahe; at a few places over Himachal Pradesh, West Rajasthan, Vidarbha, Chhattisgarh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Odisha, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka; at isolated places over Punjab, Bihar, Marathwada, Arunachal Pradesh, Telangana and Coastal & North Interior 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 East Rajasthan, Assam & Meghalaya and Kerala & Mahe; Heavy rainfall at isolated places over Arunachal Pradesh, Himachal Pradesh, Rayalaseema, Jharkhand, Gujarat Region, West Rajasthan, Nagaland, Manipur, Mizoram & Tripura, West Madhya Pradesh, Uttarakhand, Gangetic West Bengal.
- Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): East Rajasthan: Niwai (dist Tonk) 16, Mahwa (dist Dausa) 16, Nainwa (dist Bundi) 16, Sanganer Tehsil (dist Jaipur) 15, Malakhera (dist Alwar) 9, Mandawar (dist Alwar) 9, Jaipur (dist Jaipur) 9, Todabhim (dist Karauli) 8, Chaksu (dist Jaipur) 7, Uniara / Aligarh (dist Tonk) 7, Sawaimadhopur Tesil (dist Sawai Madhopur) 7, Tonk Vanasthali (dist Tonk) 7; Assam & Meghalaya: Hazuah (dist Barpeta) 14, Majbat (dist Udalguri) 10, Melabazar/matunga (dist Nalbari) 8, DRF (dist Baksa) 8, Goibargaon (dist Baksa) 7; Kerala & Mahe: Ayyankunnu (dist Cannur) 12, Venkurinji (dist Pathanamthitta) 10, Ranni (dist Pathanamthitta) 9, Punalur (dist Kollam) 8, Athirappalli (dist Thrissur) 8; Arunachal **Pradesh:** Bhalukpong (dist West Kameng) 10:**Himachal Pradesh:** Naina Davi (dist Bilaspur) 10:**Ravalaseema:** Tanakal (dist Sri Sathyasai District) 9, Punganur (dist Chittoor) 9, Amadagur (dist Sri Sathyasai District) 9, Kadiri (dist Sri Sathyasai District) 8, Madanapalle (dist Annamayya District) 8; Jharkhand: Chandrapura (dist Bokaro) 9, Hazaribagh (dist Hazaribag) 6; Gujarat Region: Navsari (dist Navsari) 8, Anand (dist Anand) 7, Palsana (dist Surat) 7; West Rajasthan: Dungargarh (dist Bikaner) 8, Pungal Sr (dist Bikaner) 6; Nagaland, Manipur, Mizoram & Tripura: Agartala (dist West Tripura) 8, Met Agartala (dist West Tripura) 8: West Madhya Pradesh: Kalapipal (dist Shajapur) 7. Badoda (dist Sheopur) 5, Sheopur (dist Sheopur) 5; Uttarakhand: Loharkhet (Bageshwar) 7, Kapkot (Bageshwar) 5;Gangetic West Bengal: Luchipur (dist Paschim Bardhaman) 7, Burnpur (dist Paschim Bardhaman) ;Tamil Nadu: Palani AWS (dist Dindigul), Kodaikannal Boat Club (dist Dindigul), Katpadi (dist Vellore) 7each; Kerala: Ayyankunnu (dist Cannur) 12, Venkurinji (dist Pathanamthitta) 10, Ranni (distPathanamthitta) 9, Punalur (dist Kollam) 8, Athirappalli (dist Thrissur) 8.
- ❖ Minimum Temperature Departures (as on 13-08-2024): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Odisha and North Interior Karnataka; above normal (1.6°C to 3.0°C) at many places over Coastal Andhra Pradesh & Yanam and Telangana; at a few places over Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; at isolated places over Rayalaseema, Konkan & Goa, East Madhya Pradesh and West Rajasthan and near normal over rest parts of the country. Today, the lowest minimum temperature of 20.1°C is reported at Baramati (Madhya Maharashtra) over the plains of the country. (Fig.4).
- * Maximum Temperature Departures (as on 12-08-2024): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over North Interior Karnataka; at isolated places over Konkan & Goa, Madhya Maharashtra, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Coastal Karnataka; at many places over Telangana and Marathwada; at a few places over Gangetic West Bengal and Odisha, at isolated places over Rayalaseema, South Interior Karnataka, East Madhya Pradesh, Vidarbha, Jharkhand and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad. These were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Haryana-Chandigarh-Delhi, East Uttar Pradesh and Assam & Meghalaya; below normal (-1.6°C to -3.0°C) at isolated places over West Madhya Pradesh, Himachal Pradesh, West Rajasthan and Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country. Yesterday, the highest Maximum Temperature of 38.0°C was reported at Jeur (Madhya Maharashtra) over the country. (Fig. 2).





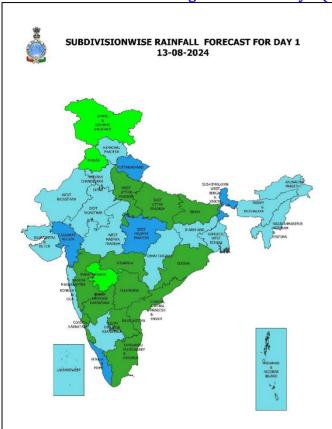
Meteorological Analysis (Based on 0830 hours IST)

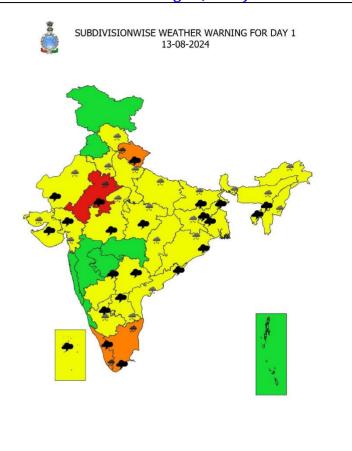
- ❖ The **Monsoon trough** at mean sea level now passes through Sri Ganganagar, Narnaul, Churk, Jamshedpur, Digha and thence east-southeastwards to northeast Bay of Bengal.
- ❖ The **cyclonic circulation** over northwest Madhya Pradesh now seen over northeast Rajasthan & neighbourhood and extends upto 7.6 km above mean sea level.
- The trough from cyclonic circulation over northwest Madhya Pradesh now runs from cyclonic circulation over northeast Rajasthan & neighbourhood to Bangladesh across south Uttar Pradesh, south Bihar and Gangetic West Bengal at 0.9 km above mean sea level.
- ❖ The **cyclonic circulation** over southeast Pakistan & adjoining Rajasthan at 1.5 km above mean sea level persists.
- ❖ A **cyclonic circulation** lies over Gujarat & neighbourhood at 3.1 km above mean sea level.
- ❖ The **cyclonic circulation** over northeast Assam at 1.5 km above mean sea level persists.
- ❖ A **cyclonic circulation** lies over south Bangladesh & neighbourhood between 1.5 & 4.5 km above mean sea level.
- ❖ The **trough** from Rayalaseema to Comorin area persists and now extends upto 0.9 km above mean sea level.
- ❖ A **cyclonic circulation** lies over south Sri Lanka & neighbourhood and extends upto 4.5 km above mean sea level tilting southwestwards with height.
- ❖ The **trough** from northeast Arabian sea to above **cyclonic circulation** over northwest Madhya Pradesh & neighbourhood between 3.1 & 4.5 km above mean sea level has become less marked.
- ❖ The **cyclonic circulation** over east Bangladesh & neighbourhood between 3.1 & 4.5 km above mean sea level has become less marked.
- ❖ The **cyclonic circulation** over Jharkhand & neighbourhood at 5.8 km above mean sea level has become less marked.





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





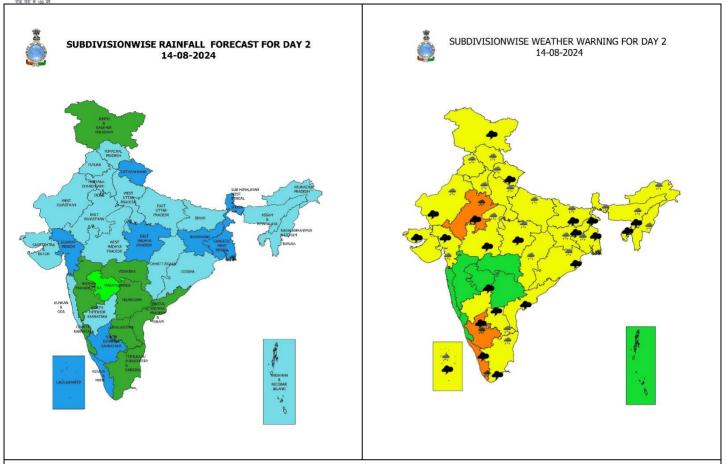
13 August (Day 1):

- ❖ Heavy to very heavy rainfall (≥ 12 cm) very likely at isolated places over Uttarakhand, East Rajasthan, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; Heavy rainfall (≥ 7 cm) at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Gujarat state, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Odisha, Jharkhand, Bihar, Uttar Pradesh, Haryana-Chandigarh, Himachal Pradesh, West Rajasthan, Madhya Pradesh, Chhattisgarh.
- ❖ Thunderstorm accompanied with lighting and gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Kerala & Mahe, Telangana; with lightning very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Uttarakhand, Rajasthan, Madhya Pradesh, West Bengal & Sikkim, Bihar, Jharkhand and Odisha.

Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over southern parts of northwest Arabian sea, many parts of westcentral Arabian sea, along and off Kerala coast, over Lakshadweep, Maldives, Comorin areas, gulf of Mannar, off Sri Lanka coast, southern parts of central Bay of Bengal and northern parts of south Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph very likely to prevail over westcentral & adjoining areas of southwest Arabian sea, along & off Somalia, Yemen & Oman coasts. Fishermen are advised not to venture into these areas



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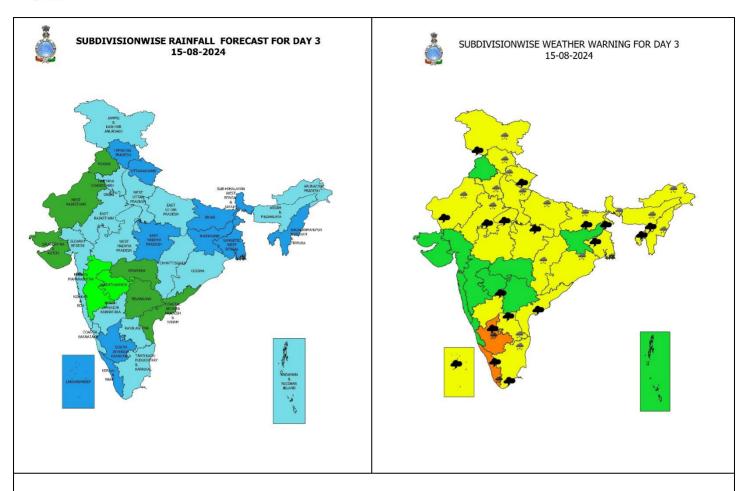


14 August (Day 2):

- ❖ Heavy to very heavy rainfall (≥ 12 cm) very likely at isolated places over East Rajasthan, South Interior Karnataka and Kerala & Mahe; Heavy rainfall (≥ 7 cm) at isolated places Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh, Uttar Pradesh, West Rajasthan, Rayalaseema, Madhya Pradesh, Chhattisgarh, Gangetic West Bengal & Sikkim, Uttarakhand, East Rajasthan, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe Jharkhand.
- ❖ Thunderstorm accompanied with lighting and gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Kerala & Mahe; with lightning very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Jammu Division, Uttarakhand, Rajasthan, Madhya Pradesh, West Bengal & Sikkim, Bihar, Jharkhand and Odisha.
- ❖ Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph very likely is likely to prevail over southern parts of northwest Arabian sea, many parts of westcentral Arabian sea, along and off Kerala coast, over Lakshadweep, Maldives, Comorin areas, gulf of Mannar, off Sri Lanka coast, many parts of central Bay of Bengal, southwest Bay of Bengal and northern parts of southeast Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph very likely to prevail over westcentral & adjoining areas of southwest Arabian sea, along & off Somalia, Oman coasts. Fishermen are advised not to venture into these areas.



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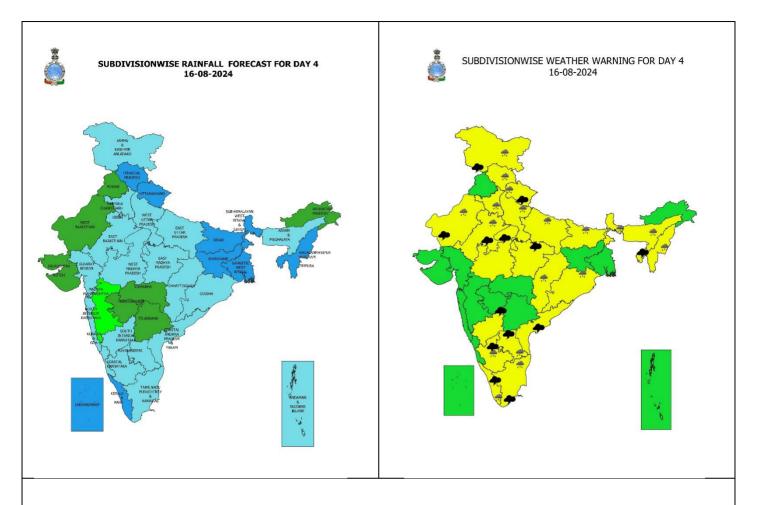


15 August (Day 3):

- ♣ Heavy to very heavy rainfall (≥ 12 cm) very likely at isolated places over South Interior Karnataka and Kerala & Mahe; Heavy rainfall (≥ 7 cm) likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Odisha, Bihar, Jharkhand, Uttar Pradesh, Uttarakhand Himachal Pradesh, Rayalaseema, Jammu division, Haryana-Chandigarh, Uttar Pradesh, Rajasthan and Chhattisgarh.
- Thunderstorm accompanied with lighting and gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Kerala & Mahe; with lightning very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Jammu Division, Uttarakhand, Rajasthan, Madhya Pradesh, West Bengal & Sikkim and Bihar.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over southern parts of northwest Arabian sea, many parts of westcentral Arabian sea, along and off Kerala coast, over Lakshadweep, Maldives, Comorin areas, gulf of Mannar, off Sri Lanka coast, many parts of central Bay of Bengal, southwest Bay of Bengal and northern parts of southeast Bay of Bengal, southern parts of northwest Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph very likely to prevail over westcentral & adjoining areas of southwest Arabian sea, along & off Somalia, Oman coasts. Fishermen are advised not to venture into these areas.



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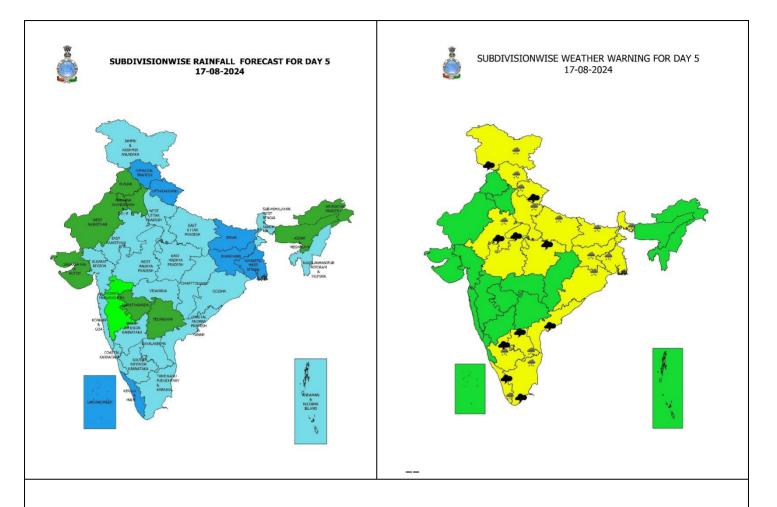


16 August (Day 4):

- ❖ Heavy rainfall (≥ 7 cm) likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Rayalaseema, South Interior Karnataka, Jammu division, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Haryana-Chandigarh, and Rajasthan.
- Thunderstorm accompanied with lighting and gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Kerala & Mahe; with lightning very likely over Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Jammu Division, Uttarakhand, Rajasthan, Madhya Pradesh.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over southern parts of northwest Arabian sea, many parts of westcentral Arabian sea, along and off Kerala coast, over Lakshadweep, Maldives, Comorin areas, gulf of Mannar, off Sri Lanka coast, many parts of central Bay of Bengal, southwest Bay of Bengal and northern parts of southeast Bay of Bengal, southern parts of northwest Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over westcentral & adjoining areas of southwest Arabian sea, along & off Somalia, Oman coasts. Fishermen are advised not to venture into these areas.



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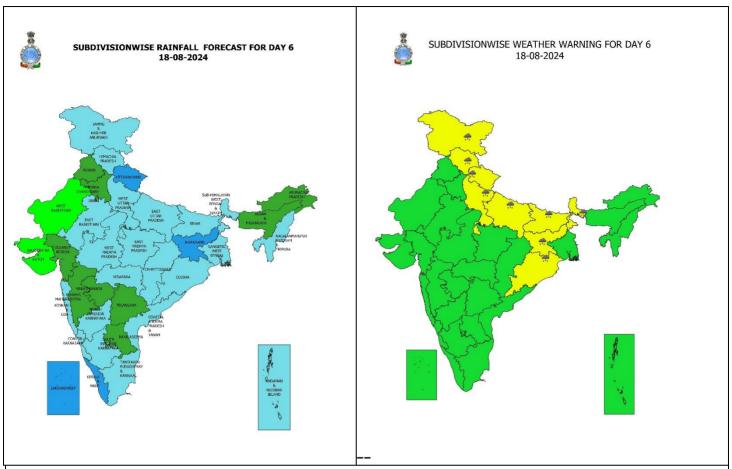
17 August (Day 5):

- ❖ Heavy rainfall (≥ 7 cm) likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, South Interior Karnataka, Jammu division, Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, West Bengal & Sikkim.
- Thunderstorm accompanied with lighting and gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Kerala & Mahe; with lightning very likely over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Jammu Division, Uttarakhand, East Rajasthan, Madhya Pradesh.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over southern parts of northwest Arabian sea, many parts of westcentral Arabian sea, southwest Arabian sea, along and off Kerala coast, over Lakshadweep, Maldives, Comorin areas, gulf of Mannar, off Sri Lanka coast, many parts of central Bay of Bengal and southeast Bay of Bengal, most parts of southwest Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over westcentral & adjoining areas of southwest Arabian sea, along & off Somalia, Oman coasts. Fishermen are advised not to venture into these areas.





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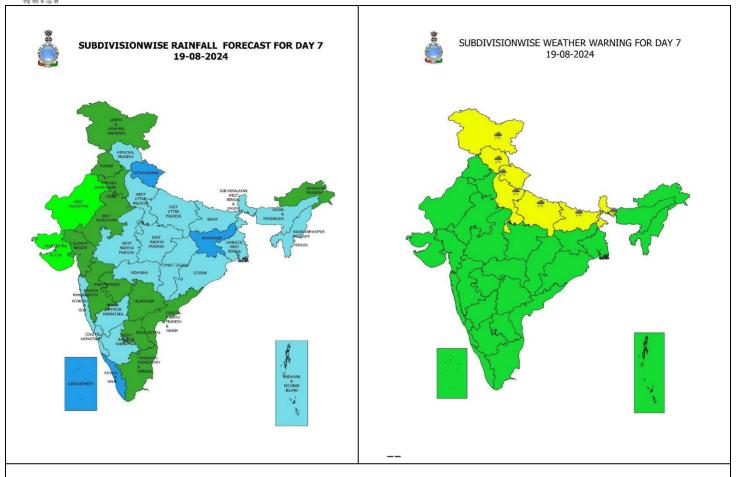


18 August (Day 6):

★ Heavy rainfall (≥ 7 cm) likely at isolated places over Jammu division, Uttarakhand, Himachal Pradesh, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand and Odisha.



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19 August (Day 7):

♣ Heavy rainfall (≥ 7 cm) likely at isolated places over Jammu division, Uttarakhand, Himachal Pradesh, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Bihar.

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

❖ Fairly widespread to widespread rainfall likely over most parts of the country except southwest Rajasthan, interior Maharashtra, Coastal & North Interior Karnataka where isolated to scattered rainfall likely.

- 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

- **Very heavy rainfall** at isolated places over Uttarakhand and Tamil Nadu, Puducherry & Karaikal on 13th; East Rajasthan on 13th & 14th; Kerala & Mahe during 13th–15th; South Interior Karnataka on 14th & 15th August.
- Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Uttarakhand, East Rajasthan and West Madhya Pradesh Met Sub-divisions on 13th & 14th August. (ANNEXURE I)
 - ✓ 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/landslips/mud slips/land sinks/mud sinks.
 - ✓ 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)

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.

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

- ✓ Drain out excess water from field crops and horticultural crops in Arunachal Pradesh,
- ✓ Assam & Meghalaya, Bihar, Himachal Pradesh, Uttarakhand, East Rajasthan, West
- ✓ Madhya Pradesh, Tamil Nadu, Kerala and South Interior Karnataka.
- ✓ Make provision for draining out excess water from standing crop fields and fruit orchards
- ✓ to avoid water stagnation in Haryana, Uttar Pradesh and Coastal Andhra Pradesh.
- ✓ Provide mechanical support to horticultural crops & Department of the vegetables.
- ✓ In Arunachal Pradesh, make proper arrangements for runoff management in Jhum rice
- ✓ fields by putting obstacles across the slopes.
- ✓ In Assam, postpone sowing of sesame, green gram and black gram.



FLASH FLOOD GUIDANCE:

Annexure-I

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 14-08-2024:

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

Uttarakhand - Almora, Chamoli, Champawat, Dehradun, Pauri Garhwal, Pithoragarh, Rudraprayag and Tehri Garwal 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.

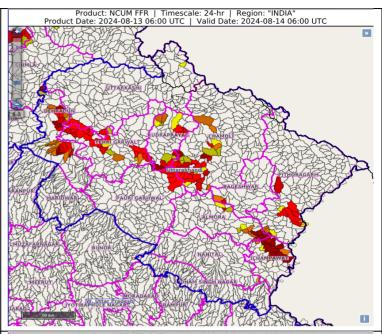
24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 14-08-2024 :

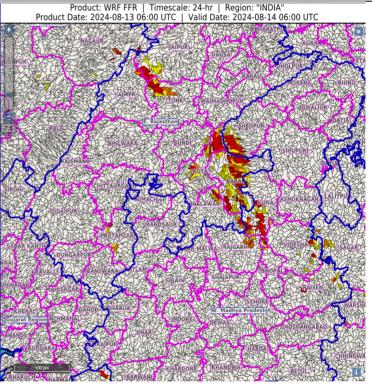
Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

East Rajasthan - Ajmer, Baran, Jaipur, Jhalawar, Kota and Tonk districts.

West Madhya Pradesh - Guna, Rajgarh, Sheopur and Videsha 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.



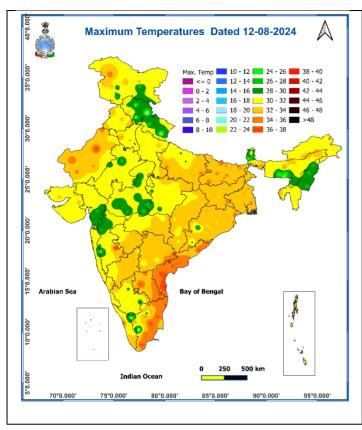




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Fig. 2: Departure of Maximum Temperatures

Fig. 1: Maximum Temperatures



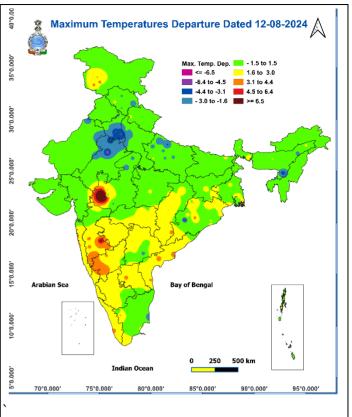
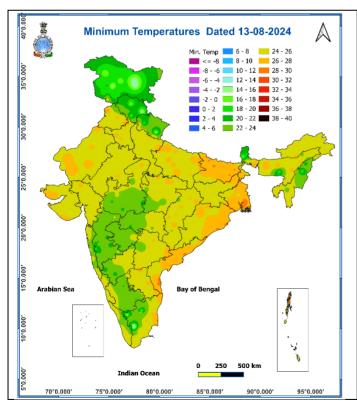


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



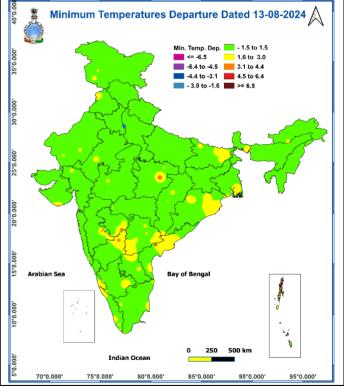
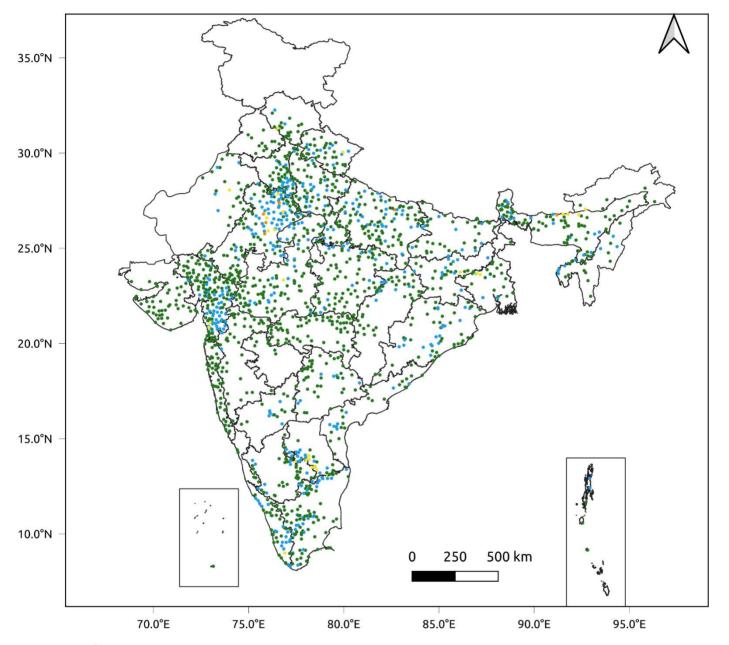




Fig. 5: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 12-8-2024 to 0830 IST of 13-8-2024



Legends

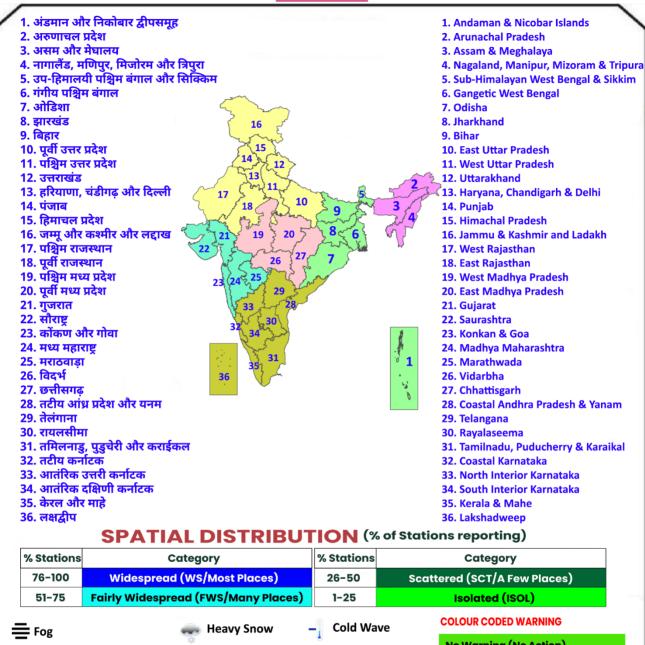
- Very Light to Light Rainfall (0.1 15.5 mm)
- Moderate Rainfall (15.6 64.4 mm)
- Heavy Rainfall (64.5 115.5 mm)
- Very Heavy Rainfall (115.6 204.4 mm)
- Extremely Heavy Rainfall (>=204.5 mm)





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LEGENDS



	76-100	Widespre	ad (WS/Most Places)	26-50	Scat	tered (SCT	A Few Places)	
	51-75 Fairly Widespr		read (FWS/Many Places)	1-25		Isolated (ISOL)		
≡ Fog			Heavy Snow -	Cold Wa	ive	COLOUR CODED WARNING		
— 108			_			No Warning (No Action)		
🛖 Heavy Rain			Dust Storm -	Dust Storm – Cold Day		Watch (Be Aware)		
4	Very Hea	vy Rain	+ Heat Wave Ground Frost			Alert (Be Prepared To Take Action)		
Extremely Heavy Rain			+ Warm Night			Warning (Take Action)		
-			• Hot Day			Probabilistic Forecast		
Thunder & Lightning		& Lightning	+ Hot Day			Terms	Probability of Occurrenc	e (%)
4	Hailstorr	n	👍 Hot & Humid			Unlikely Likely	< 25 25 - 50	
, #	Dust Rais	ing Winds	Strong Surface Winds			Very Likely Most Likely	50 - 75 > 75	
	•		10					

* 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)





	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
Heat Wave	(a) Based on Departure from normal
	Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
	(b). Based on Actual maximum temperature
	Heat Wave: When actual maximum temperature ≥45°C. Severe Heat Wave: When actual maximum temperature ≥47°C
	(c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
	When maximum temperature remains 40°C
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.
	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.
Cold Wave	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: 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 5 -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 Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
	Ice deposits on ground
Frost	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
-	Very Severe: Wind speed >87 kmph
	Effect of various waves in the sea over specific area
Sea State	Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
our otato	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 88-117 kmph (48-63 knots)
	Very Severe Cyclonic Storm: Wind speed 66-117 kmph (46-63 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)