

Thursday, September 26, 2024  
Time of Issue: 0800 hours IST  
(MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features:

#### Weather Systems:

- ✓ A cyclonic circulation lies over Vidarbha & neighbourhood and extends upto middle tropospheric level, tilting southwards with height.
- ✓ A trough runs from north Konkan to south Bangladesh across the above cyclonic circulation over Vidarbha and extends upto middle tropospheric level tilting southwards with height.

#### Forecast & Warnings (upto 7 days):

##### West India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Konkan & Goa during the week; Fairly widespread to widespread light to moderate rainfall over Madhya Maharashtra, Gujarat Region, Marathwada during next 3 days & Isolated to Scattered light to moderate rainfall during the next subsequent 4 days; Scattered to Fairly widespread light to moderate rainfall over Saurashtra & Kutch during the next 2 days & Isolated to Scattered light to moderate rainfall during the next subsequent 5 days.
- ✓ **Isolated extremely heavy rainfall** very likely over Konkan & Goa, Madhya Maharashtra and Gujarat Region on 26<sup>th</sup> September.
- ✓ **Isolated heavy to very heavy rainfall** very likely over Konkan & Goa, Gujarat state & Madhya Maharashtra on 26<sup>th</sup> & 27<sup>th</sup> September.
- ✓ **Isolated heavy rainfall** very likely over Konkan & Goa & Madhya Maharashtra during 26<sup>th</sup> -27<sup>th</sup>; Marathwada on 26<sup>th</sup>; Gujarat State during 26<sup>th</sup> -28<sup>th</sup> September.

##### Central India:

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Vidarbha, Chhattisgarh during next 24 hours & Scattered to Fairly widespread light to moderate rainfall during next subsequent 6 days; Scattered to Fairly widespread light to moderate rainfall over Madhya Pradesh during next 3 days & Isolated to Scattered light to moderate rainfall during the next subsequent 4 days.
- ✓ **Isolated heavy rainfall** very likely over West Madhya Pradesh during 26<sup>th</sup> -27<sup>th</sup>; East Madhya Pradesh on 26<sup>th</sup> September.

##### East & Northeast India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Northeast India during the next 7 days; Fairly widespread to widespread light/moderate rainfall very likely over West Bengal & Sikkim, Bihar during next 3 days & Scattered to Fairly widespread light to moderate rainfall during next subsequent 4 days; Fairly widespread to widespread light/moderate rainfall very likely over Jharkhand, Odisha during next 2 days & Isolated to Scattered light to moderate rainfall during the next subsequent 5 days; Scattered to Fairly widespread light to moderate rainfall over Andaman & Nicobar Islands during the week.
- ✓ **Isolated extremely heavy rainfall** very likely over Sub-Himalayan West Bengal & Sikkim on 26<sup>th</sup> September.
- ✓ **Isolated heavy to very heavy rainfall** very likely over Arunachal Pradesh, Assam & Meghalaya on 26<sup>th</sup>; Bihar, Sub-Himalayan West Bengal & Sikkim during 26<sup>th</sup> -27<sup>th</sup> September.
- ✓ **Isolated heavy rainfall** very likely over Arunachal Pradesh, Assam & Meghalaya during the week; Nagaland, Manipur, Mizoram & Tripura during 26<sup>th</sup> -27<sup>th</sup> September & 01<sup>st</sup> October; Sub-Himalayan West Bengal & Sikkim during 26<sup>th</sup> -27<sup>th</sup>; Jharkhand, Gangetic West Bengal, Odisha on 26<sup>th</sup>; Bihar during 26<sup>th</sup> -28<sup>th</sup> September.

##### Northwest India

- ✓ Scattered to Fairly widespread light to moderate rainfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand & East Uttar Pradesh during next 2 days & Isolated to Scattered light to moderate rainfall during the next subsequent 5 days; Isolated to Scattered light to moderate rainfall over the remaining region during the week.
- ✓ **Isolated heavy to very heavy rainfall** very likely East Uttar Pradesh on 27<sup>th</sup> September.
- ✓ **Isolated heavy rainfall** very likely over Uttarakhand during 26<sup>th</sup> -27<sup>th</sup>; West Uttar Pradesh on 27<sup>th</sup>; East Uttar Pradesh during 26<sup>th</sup> -28<sup>th</sup> September.

##### South Peninsular India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Coastal Karnataka; Scattered to Fairly widespread light to moderate rainfall over Kerala & Mahe, Lakshadweep, South Interior Karnataka, Coastal Andhra Pradesh & Yanam; Isolated to Scattered light to moderate rainfall over North Interior Karnataka, Rayalaseema, Telangana, Tamil Nadu, Puducherry & Karaikal during the week.
- ✓ **Isolated heavy rainfall** very likely over Kerala & Mahe on 29<sup>th</sup> & 30<sup>th</sup>; Telangana & Coastal Karnataka on 26<sup>th</sup> September.

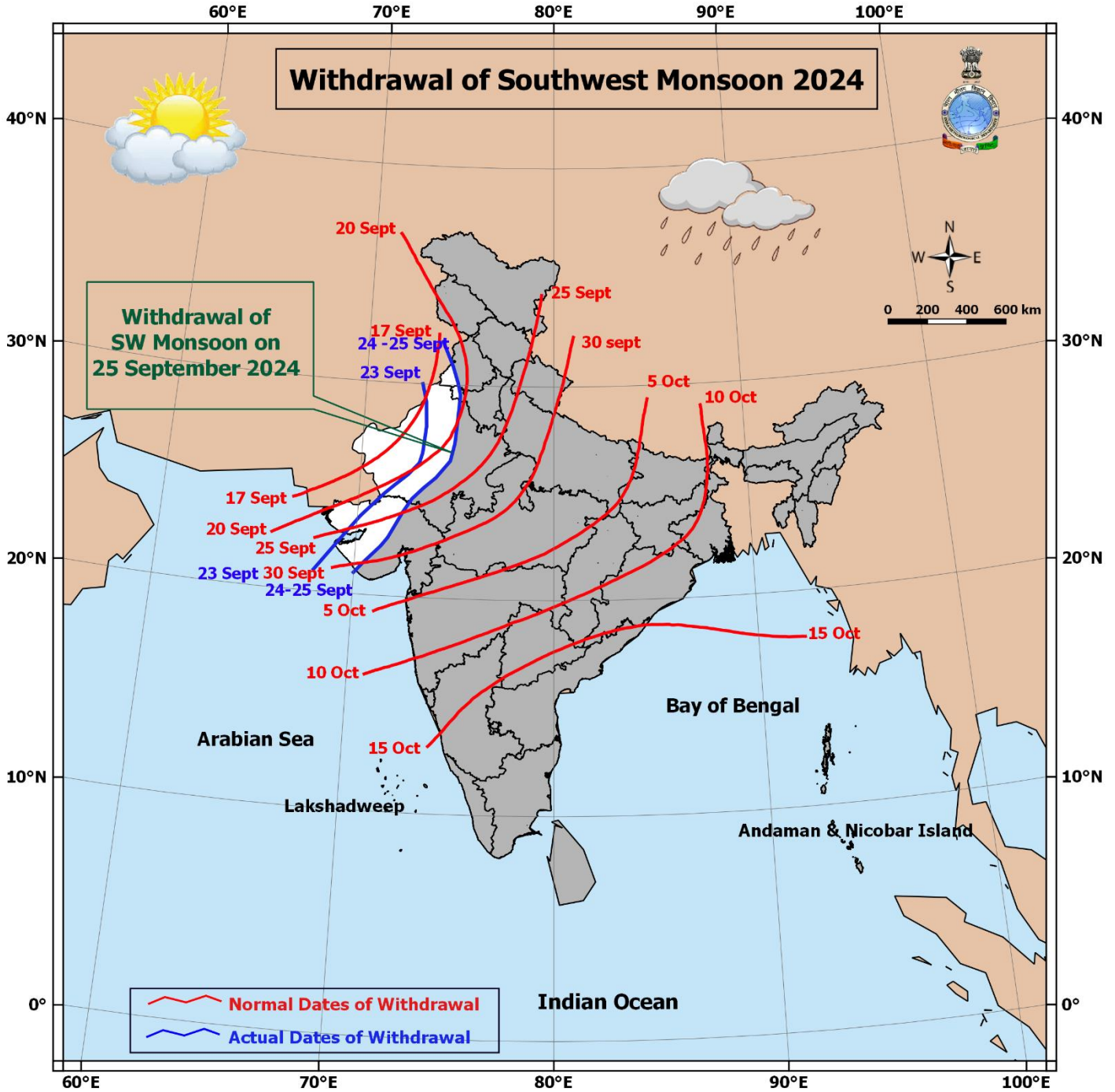
## Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over West Bengal & Sikkim, Odisha, Konkan & Goa, Coastal Karnataka; **at a few places** over Kerala & Mahe, Assam & Meghalaya, Andaman & Nicobar Islands; **at isolated places** over Himachal Pradesh, Punjab, Uttarakhand, Haryana-Chandigarh, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Gujarat state, Bihar, Jharkhand, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Vidarbha, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana and Lakshadweep.
- ❖ **Heavy rainfall** recorded (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy to very Heavy rainfall** at isolated places over Odisha, Madhya Maharashtra; **Heavy rainfall** at isolated places over Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm) ( $\geq 3$  cm): **Odisha:** Talcher-16, Keongjargarh-8, Angul-6, Bhadrak-4, Raurkela, Chandbali and Paradip-3 each; **Madhya Maharashtra:** Chinchwad (Pune) -13, Shivajinagar (Pune) -12, Wadgaonsheri (Pune) -7, Koregaon Park (Pune) And Narayangoan (Pune) -6, Khed (Pune) And Hadapsar (Pune) -4 Each, Bor (Pune) And Lonavala (Pune) -3 Each; **Konkan & Goa:** Matheran-8; **Nagaland, Manipur, Mizoram & Tripura:** Lengpui-7, Kailashahar-5, Agartala-3; **West Madhya Pradesh:** Khandwa-6; **Gangetic West Bengal:** Asansol and Bankura-4 each, Shanti Niketan-3; **Gujarat Region:** Surat-4; **Haryana-Chandigarh-Delhi:** Chandigarh-3; **Sub-Himalayan West Bengal & Sikkim:** Darjiling-3; **Assam & Meghalaya:** Lumding-3; **East Madhya Pradesh:** Mandla-3; **Chhattisgarh:** Rajnandgoan-3.
- ❖ **Minimum Temperature Departures (as on 25-09-2024):** Minimum temperatures were **markedly above normal (5.1°C or more)** at many places over Himachal Pradesh; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab; at isolated places over West Rajasthan, Haryana-Chandigarh; **appreciably above normal (3.1°C to 5.0°C)** at most places over Uttarakhand; at isolated places over East Rajasthan, Uttar Pradesh, Madhya Pradesh, Gujarat Region; **above normal (1.6°C to 3.0°C)** at many places over Madhya Maharashtra, Saurashtra & Kutch; at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Vidarbha, Marathwada, Konkan & Goa, North Interior Karnataka, Odisha, Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 21.0°C was reported at **Mandla (East Madhya Pradesh)** over the plains of the country. (Fig.4)
- ❖ **Maximum Temperature Departures (as on 25-09-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Tamil Nadu, Puducherry & Karaikal; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Punjab, Haryana-Chandigarh-Delhi, West Rajasthan, Gujarat Region, Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at isolated places over East Rajasthan, Saurashtra & Kutch, West Madhya Pradesh. These were **markedly below normal (-5.1°C or less)** at isolated places over Gangetic West Bengal; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Bihar, Odisha, Telangana, Vidarbha; **below normal (-1.6°C to -3.0°C)** at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Karnataka, Rayalaseema and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature** of 41.6°C was reported at **Madurai (Tamil Nadu)** over the country. (Fig. 2)

## Meteorological Analysis (Based on 0530 hours IST)

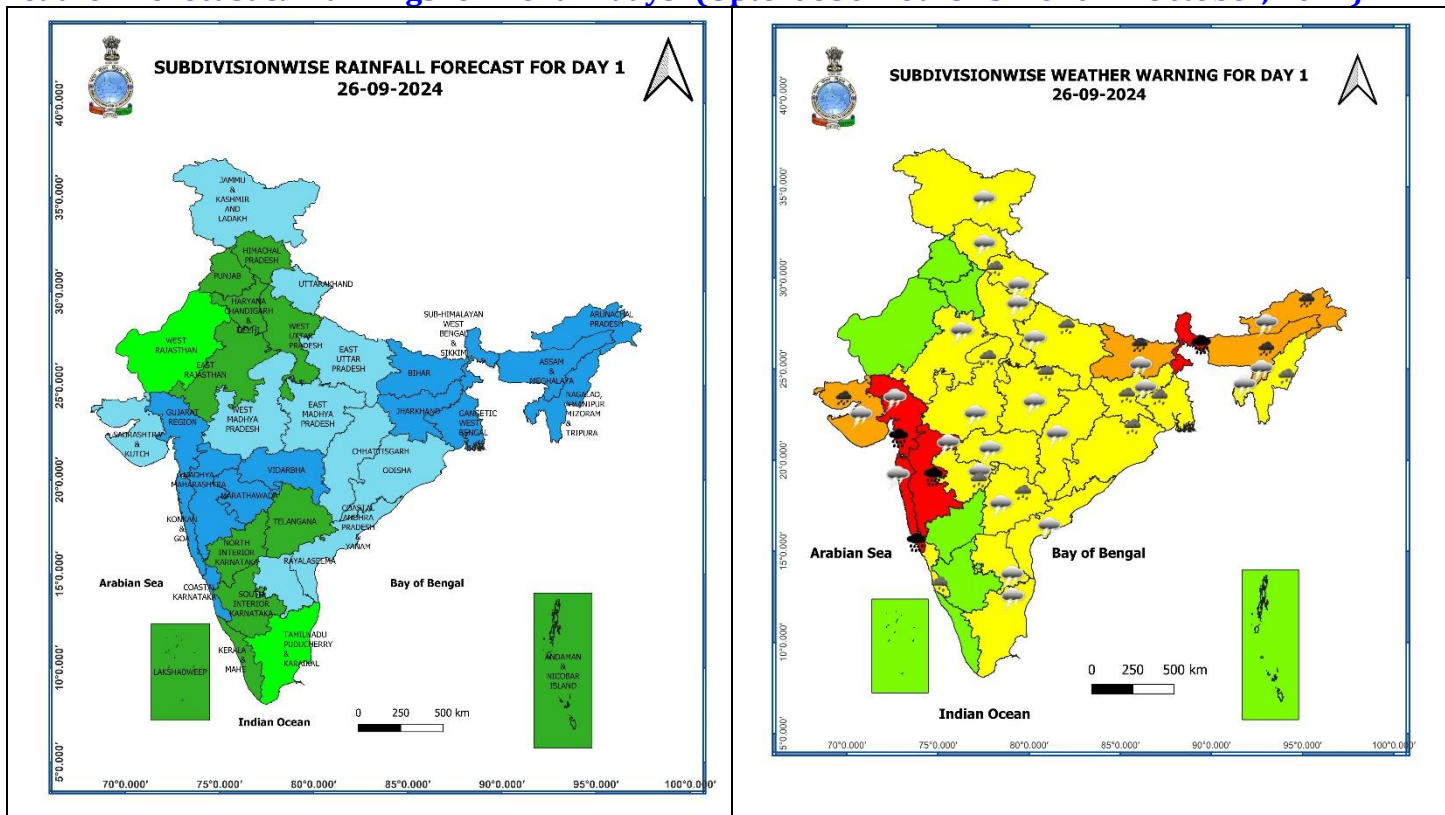
- ❖ The **line of withdrawal of southwest monsoon** continues to pass through Firozpur, Sirsa, Churu, Ajmer, Mount Abu, Deesa, Surendranagar, Junagarh and 21°N/70°E.
- ❖ The **cyclonic circulation** over south Chhattisgarh & neighbourhood now lies over Vidarbha & neighbourhood and extends upto 5.8 km above mean sea level tilting southwards with height.
- ❖ The **trough** from north Konkan to south Bangladesh now runs from north Konkan to south Bangladesh across the above cyclonic circulation over Vidarbha & neighbourhood extending upto 5.8 km above mean sea level.

### Withdrawal of Southwest Monsoon 2024



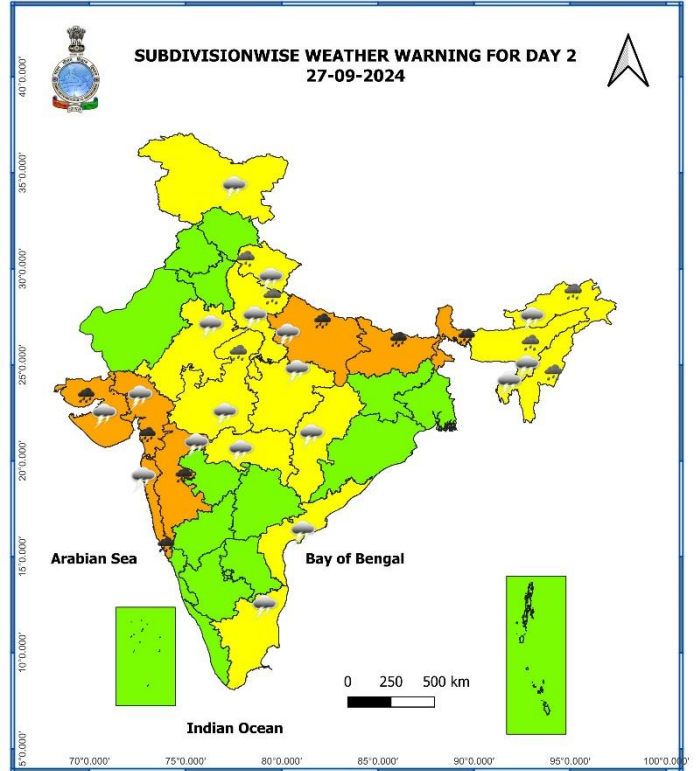
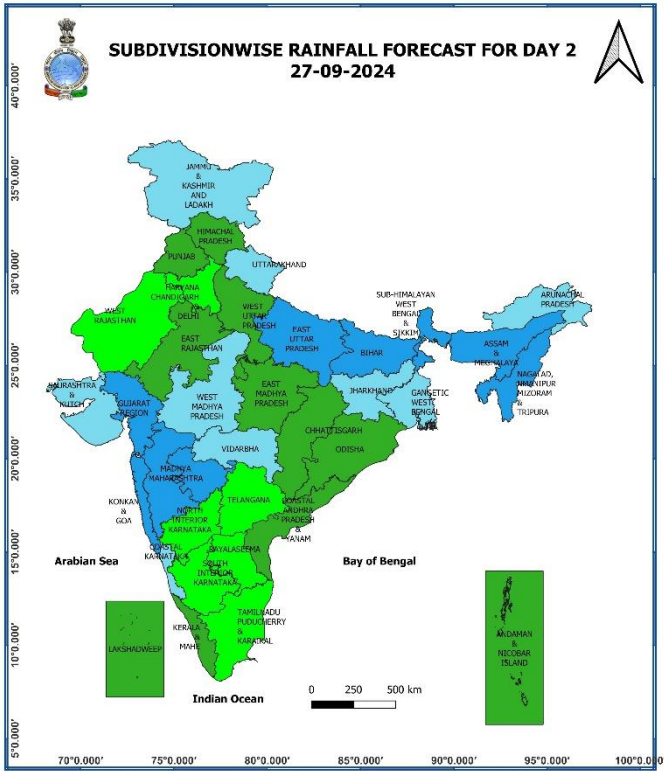
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Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 02<sup>nd</sup> October, 2024)



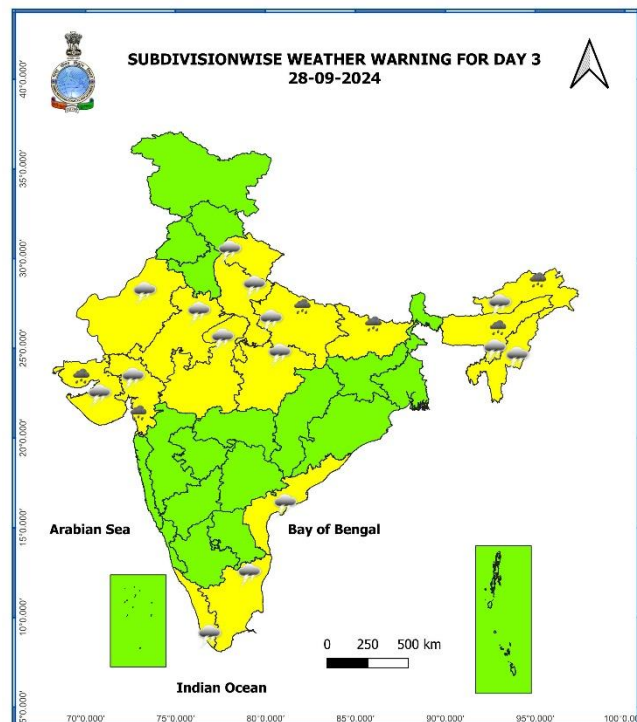
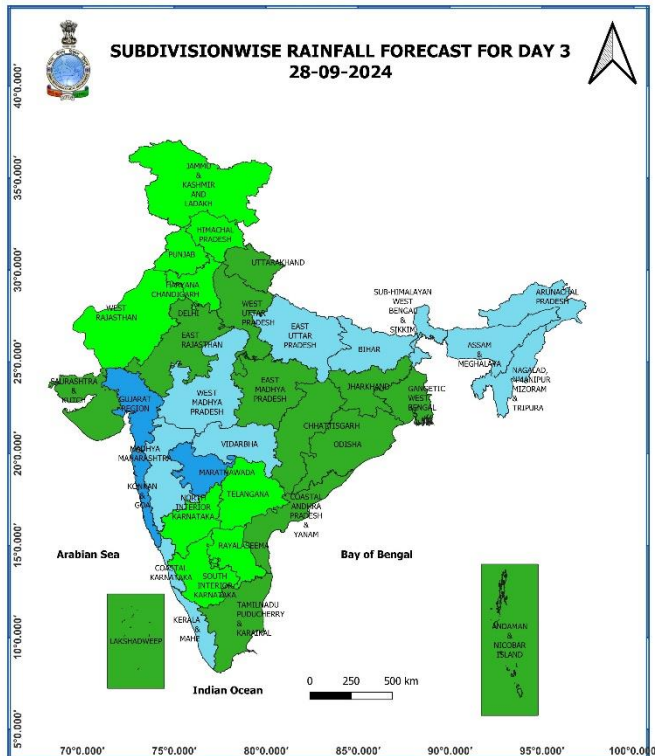
26 September (Day 1):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls (> 20 cm)** very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Sub-Himalayan West Bengal & Sikkim, Gujarat Region; **Heavy to very Heavy rainfall (≥12 cm)** very likely at isolated places over Bihar, Assam & Meghalaya, Arunachal Pradesh, Saurashtra & Kutch; **Heavy rainfall (≥7 cm)** very likely at isolated places over Uttarakhand, Uttar Pradesh Madhya Pradesh, Gangetic West Bengal, Jharkhand, Odisha, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Telangana, Coastal Karnataka.
- ❖ **Thunderstorm accompanied gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Telangana; **with lightning** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over north Maharashtra, south Gujarat coasts, gulf of manner, along and off Sri Lanka coast, many parts of south and Westcentral Bay of Bengal, along and off north Andhra Pradesh and adjoining Odisha coasts. **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.



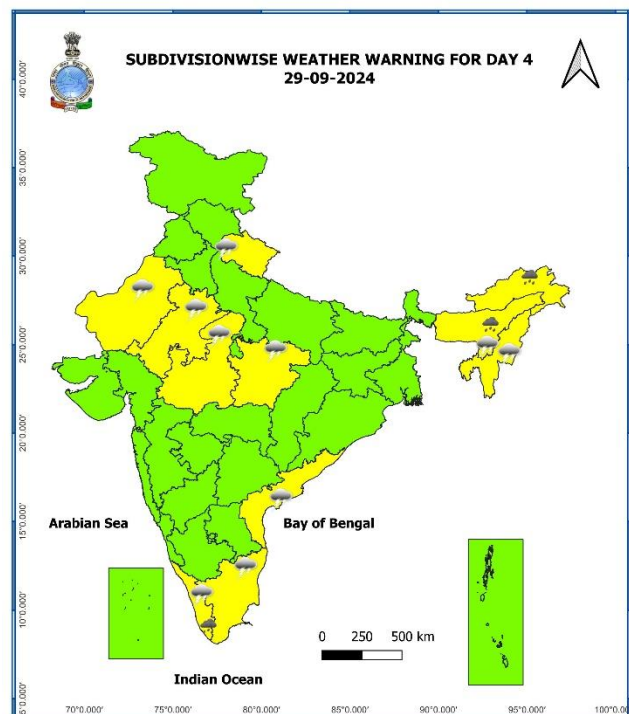
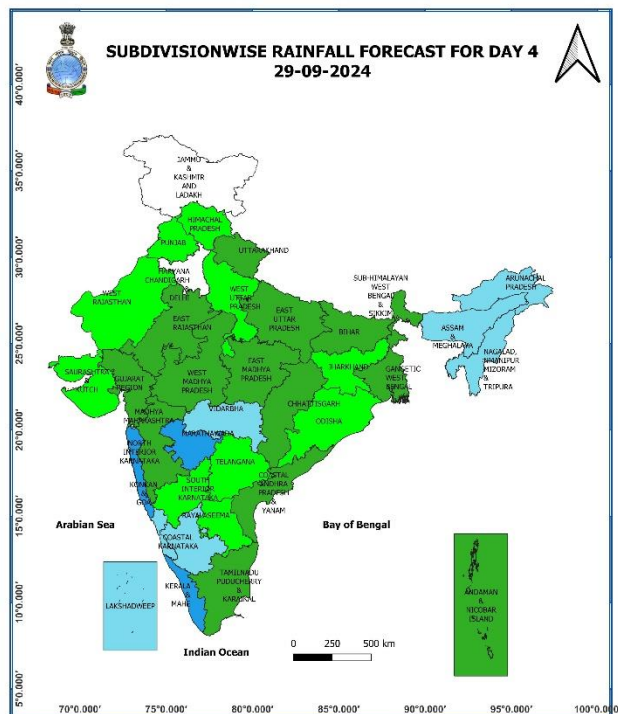
### 27 September (Day 2):

- ❖ **Heavy to very Heavy rainfall ( $\geq 12$  cm)** very likely at isolated places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Konkan & Goa, Madhya Maharashtra, Gujarat state; **Heavy rainfall ( $\geq 7$  cm)** very likely at isolated places over Uttarakhand, West Uttar Pradesh, West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over south Gujarat and gulf of manner, off Sri Lanka coast, few parts of southwest Bay of Bengal and many parts of west 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 Westcentral Arabian sea along and off Somalia coast. Fishermen are advised not to venture into these areas.



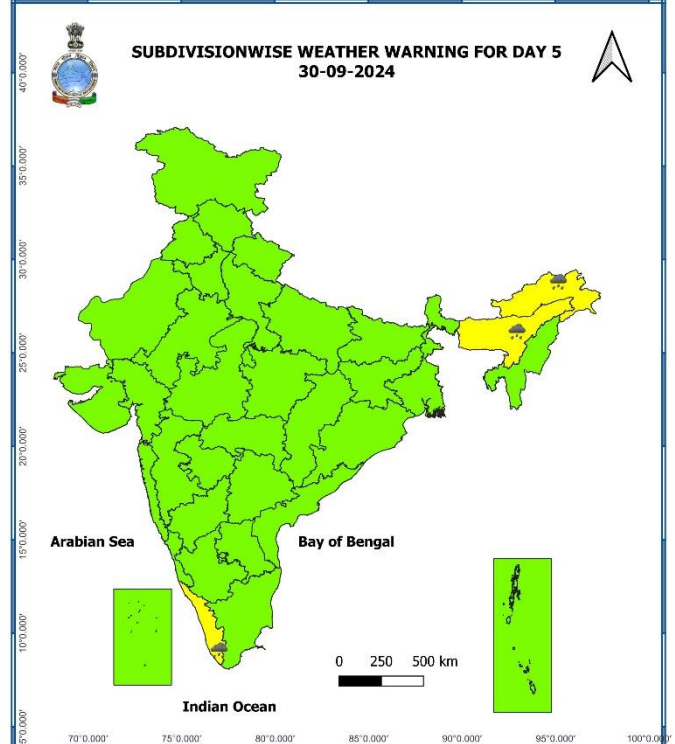
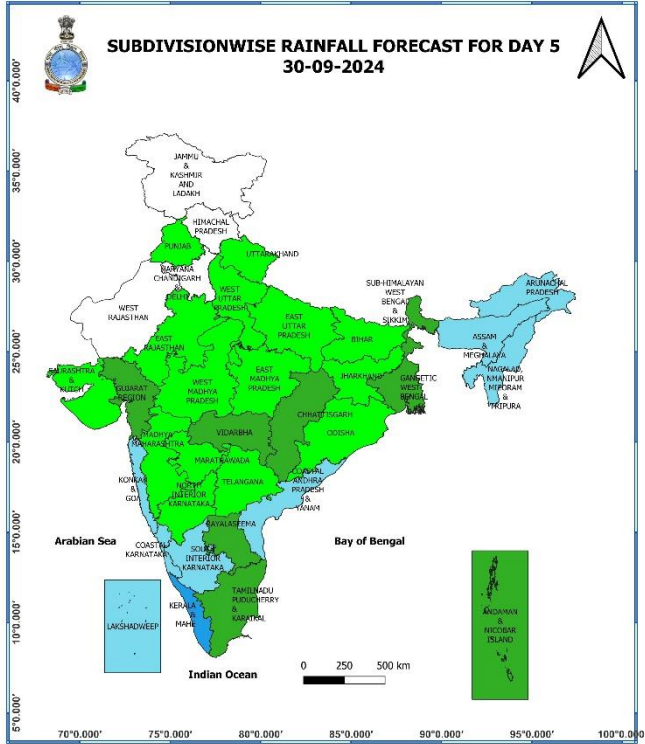
### 28 September (Day 3):

- ❖ **Heavy rainfall ( $\geq 7$  cm)** very likely at isolated places over Uttar Pradesh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Gujarat state.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- ❖ **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over gulf of Manner. **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.



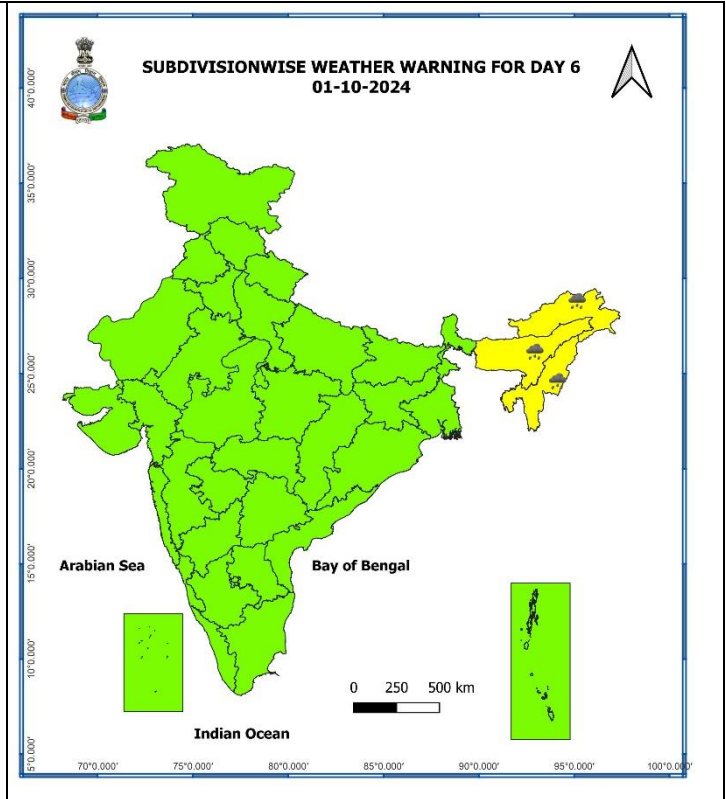
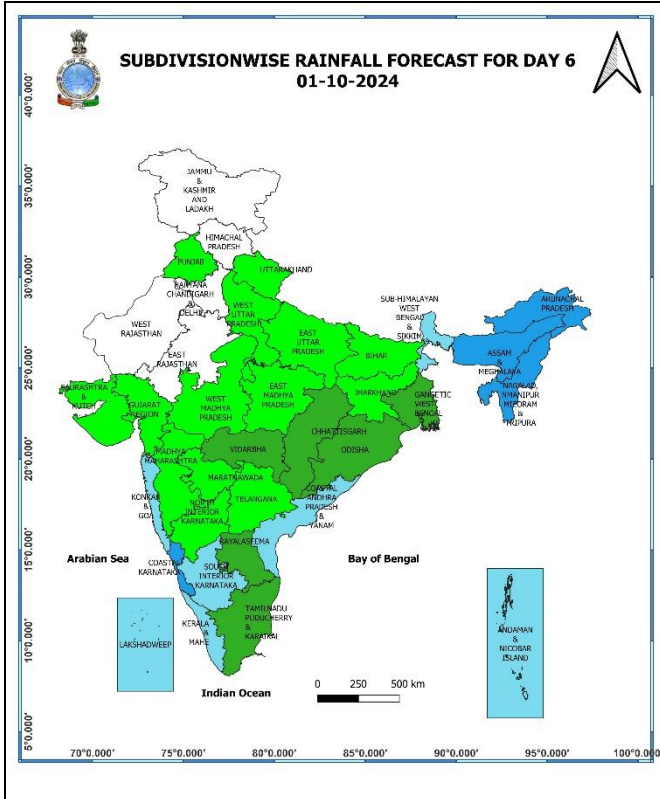
### 29 September (Day 4):

- ❖ **Heavy rainfall ( $\geq 7$  cm)** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Uttarakhand, Rajasthan, Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- ❖ **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.



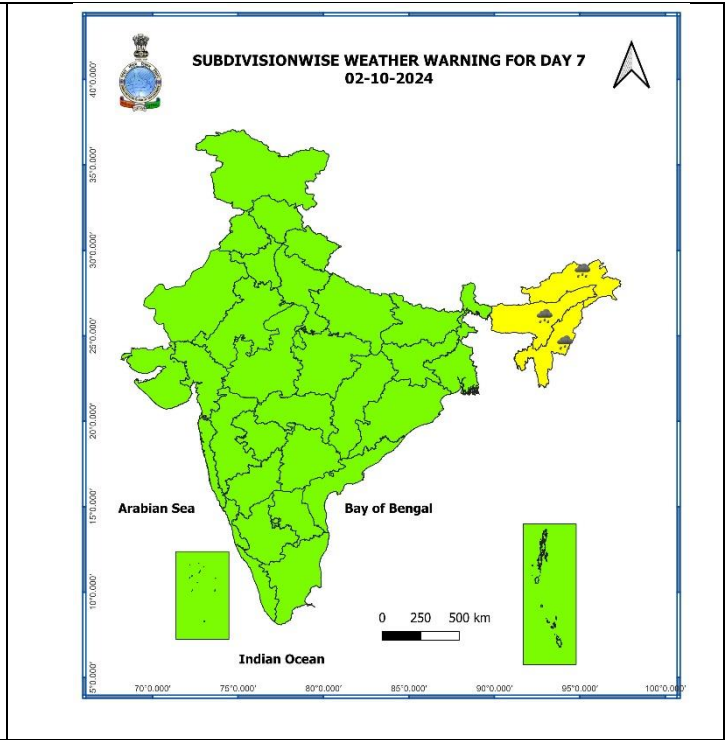
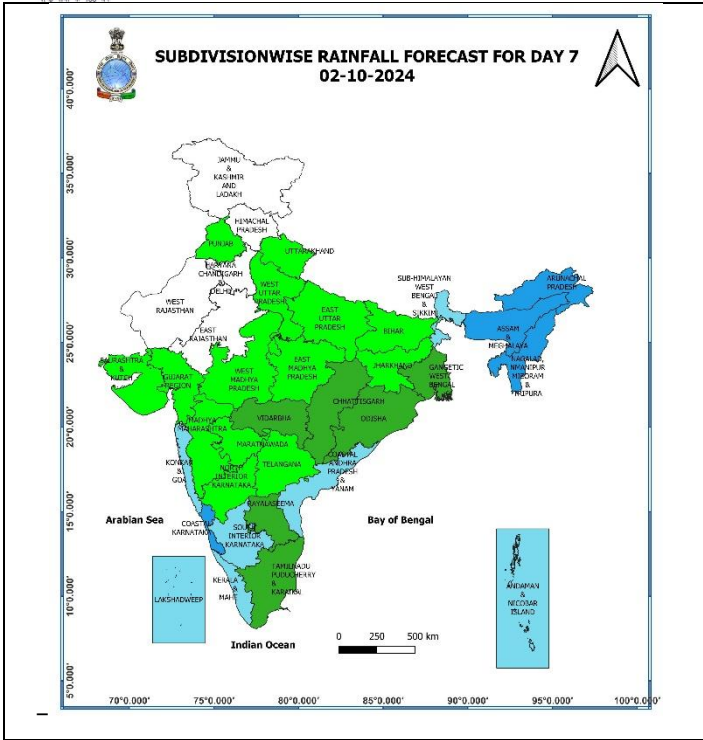
**30 September (Day 5):**

- ❖ Heavy rainfall ( $\geq 7$  cm) likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe.



**01 October (Day 6):**

❖ **Heavy rainfall ( $\geq 7$  cm)** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.



**02 October (Day 7):**

- ❖ **Heavy rainfall ( $\geq 7$  cm)** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

**Weather Outlook for subsequent 3 days (During 03<sup>rd</sup> October- 05<sup>th</sup> 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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## Impact due to

- **Isolated extremely heavy rainfall** very likely over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Madhya Maharashtra, Gujarat Region on 26<sup>th</sup> September.
- **Isolated heavy to very heavy rainfall** very likely over Arunachal Pradesh, Assam & Meghalaya on 26<sup>th</sup>; Bihar, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Gujarat Region, Madhya Maharashtra, Saurashtra & Kutch on 26<sup>th</sup> & 27<sup>th</sup>; East Uttar Pradesh on 27<sup>th</sup> September.
- **Moderate flash flood** risk likely over few watersheds & neighbourhoods of Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim Gujarat Region, Konkan & Goa, Madhya Maharashtra, Marathwada; **Low to Moderate flash flood risk** likely over few watersheds & neighbourhoods of Himachal Pradesh, Uttarakhand on 26<sup>th</sup> & 27<sup>th</sup> September. **(Annexure I)**.

## 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 kutchha 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 Madhya Maharashtra, Marathwada and Vidarbha regions of Maharashtra, postpone harvesting of matured soybean, groundnut, maize and pearl millet. Immediately move the harvested produce to safer places and cover them with plastic sheets or tarpaulin.
- ✓ In Konkan region of Maharashtra, make arrangements to drain out excess water from rice, finger millet, turmeric, groundnut, vegetables and orchards.
- ✓ Make provision for draining out excess water from standing crop fields and fruit orchards to avoid water stagnation in Kerala, Karnataka, Andhra Pradesh, Telangana, Madhya Pradesh, Chhattisgarh, Gujarat, Maharashtra, Goa, West Bengal, Odisha, and North Eastern States.
- ✓ Keep the harvested produce at safer places.
- ✓ Provide mechanical support to horticultural crops & staking to vegetables.

**Flash Flood Guidance:**

**ANNEXURE I**

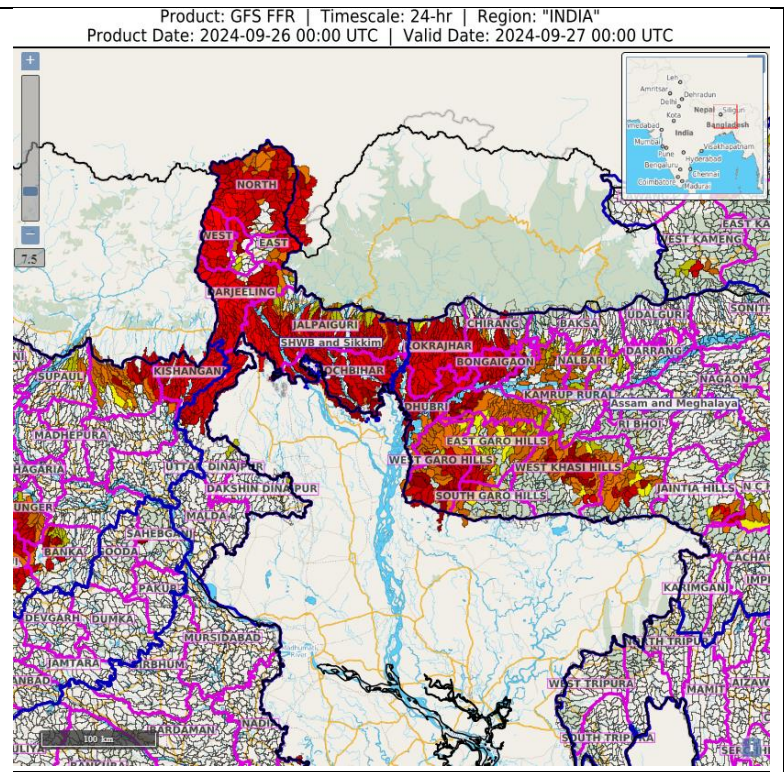
**24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 27-09-2024 :**

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

**Assam & Meghalaya** - Bongaigaon, Goalpara, Kokrajhar, West Khasi Hills and Dhubri districts.

**SHWB & Sikkim** - East Sikkim, North Sikkim, South Sikkim, West Sikkim, Darjeeling, Jalpaiguri, Kochbihar and Uttar Dinajpur

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



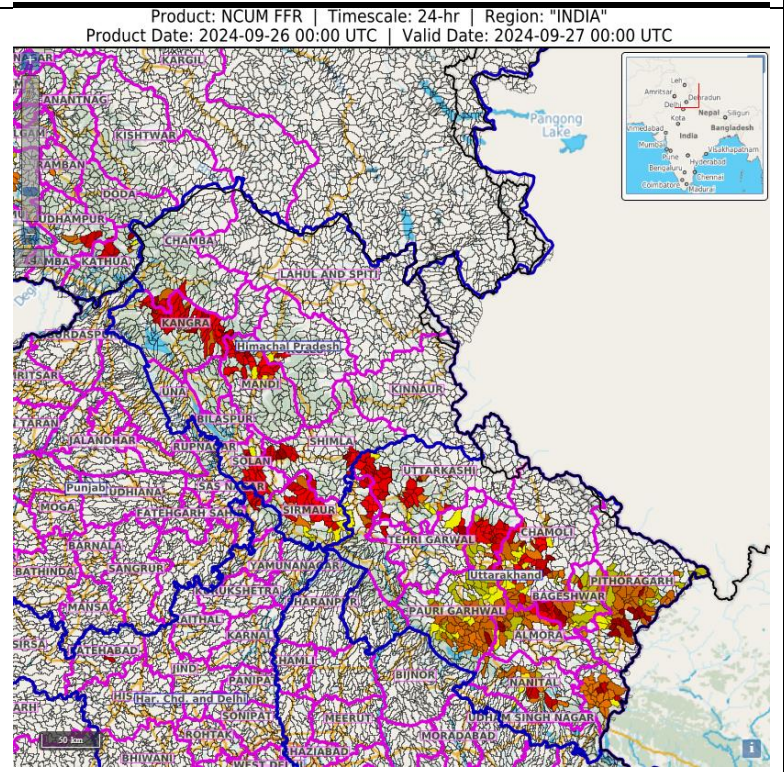
**24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 27-09-2024 :**

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

**Uttarakhand:** - Dehradun, Uttarkashi, Tehri Gharwal, Pauri Gharwal, Nainital, Almora, Bageshwar, Rudraprayag, Pithoragarh and Chamoli districts

**Himachal Pradesh:** - Sirmour, Kangra, Chamba, Solan, Kullu, Shimla and Mandi districts.

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



**24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 27-09-2024 :**

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

**Gujarat Region** - Daman, Bharuch, Chhota Udepur, Dangs, Narmada, Navsari, Surat, Tapi, Vadodara and Valsad districts.

**Konkan & Goa** - Mumbai City, Palghar, Raigarh, Ratnagiri, Sindhudurg, Suburban Mumbai and Thane districts.

**Madhya Maharashtra** - Ahmadnagar, Dhule, Jalgaon, Kolhapur, Nasik, Pune and Satara districts.

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

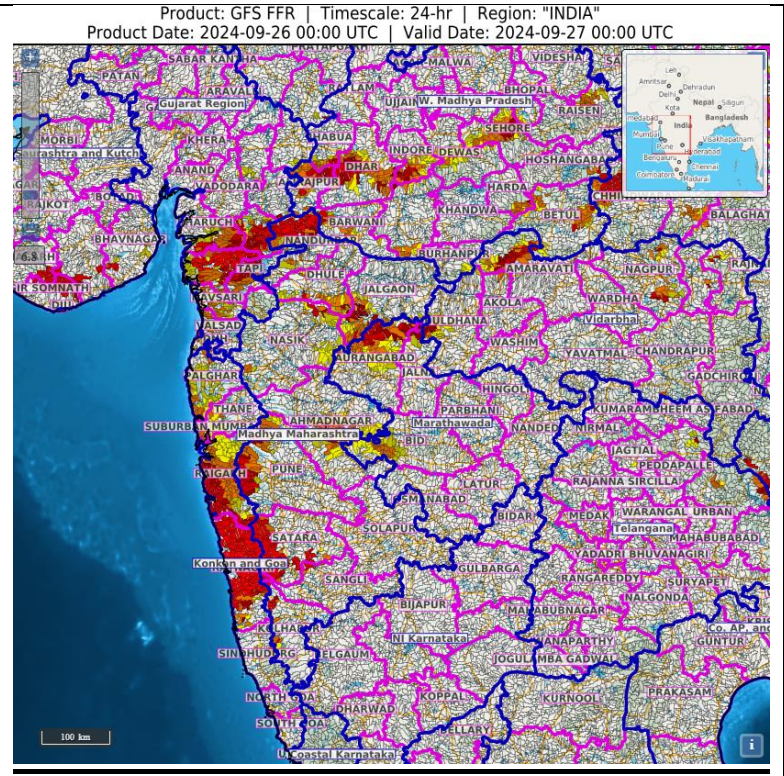


Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

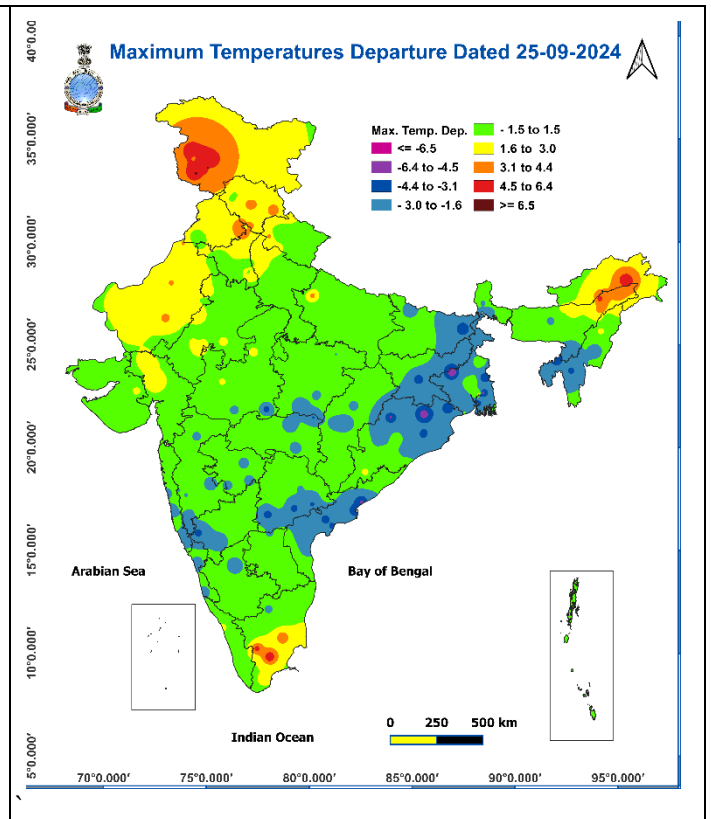
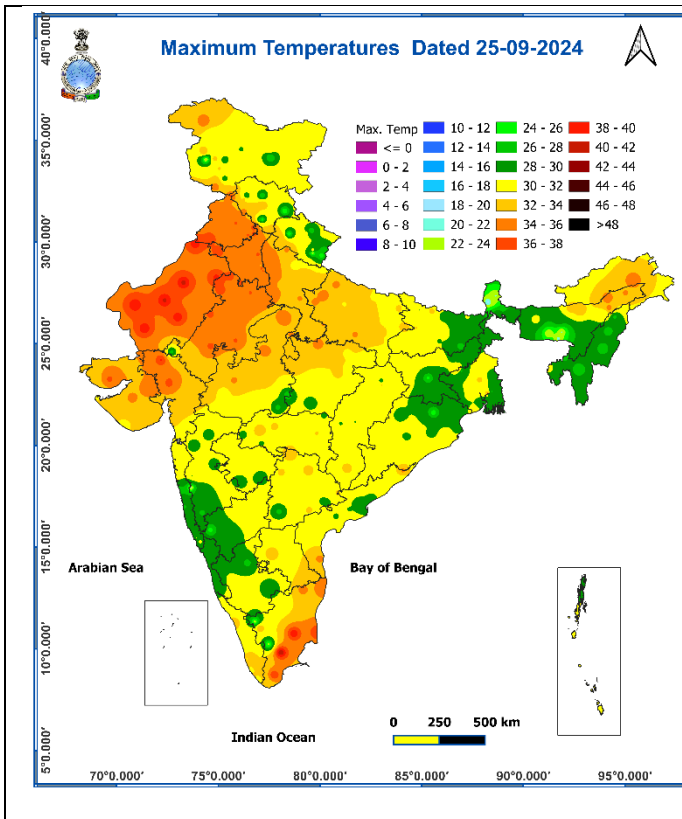
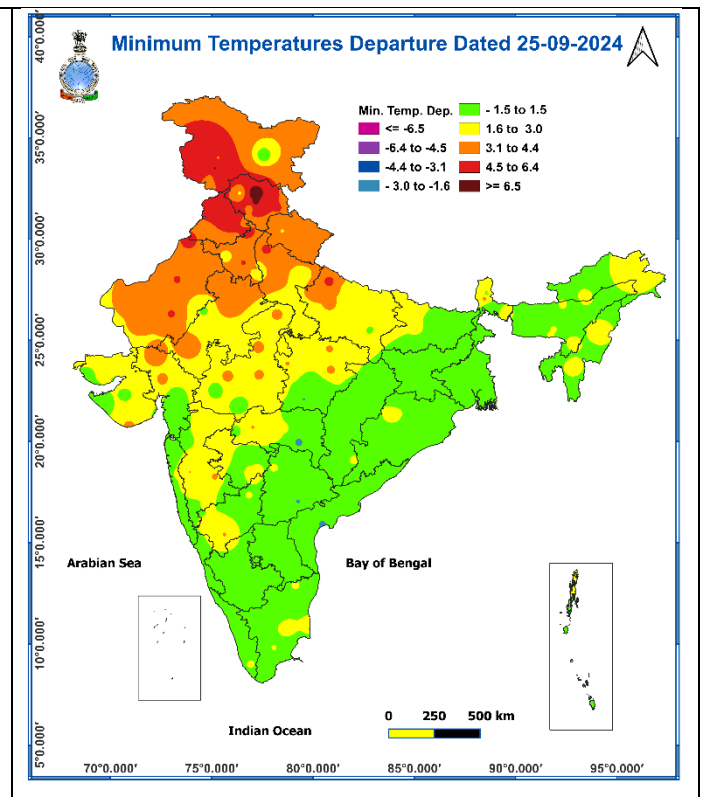
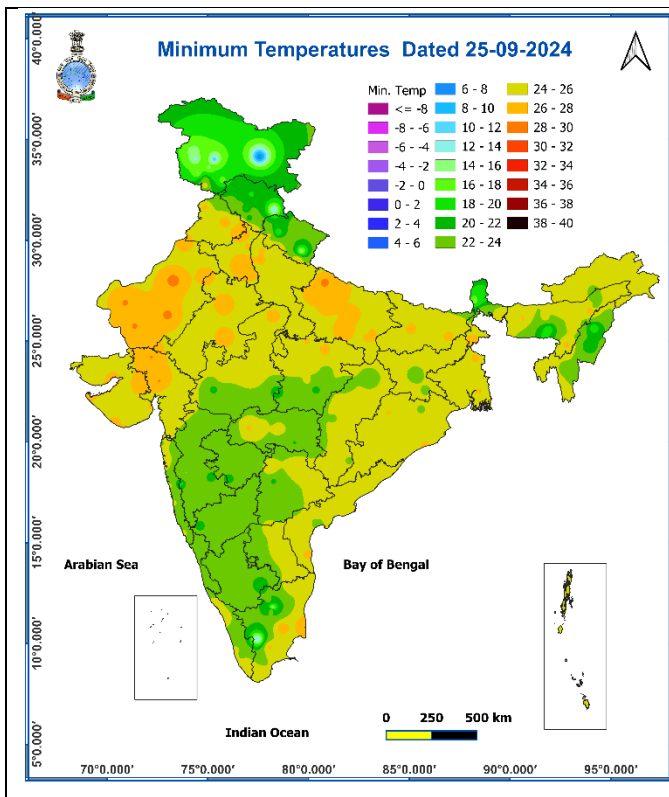


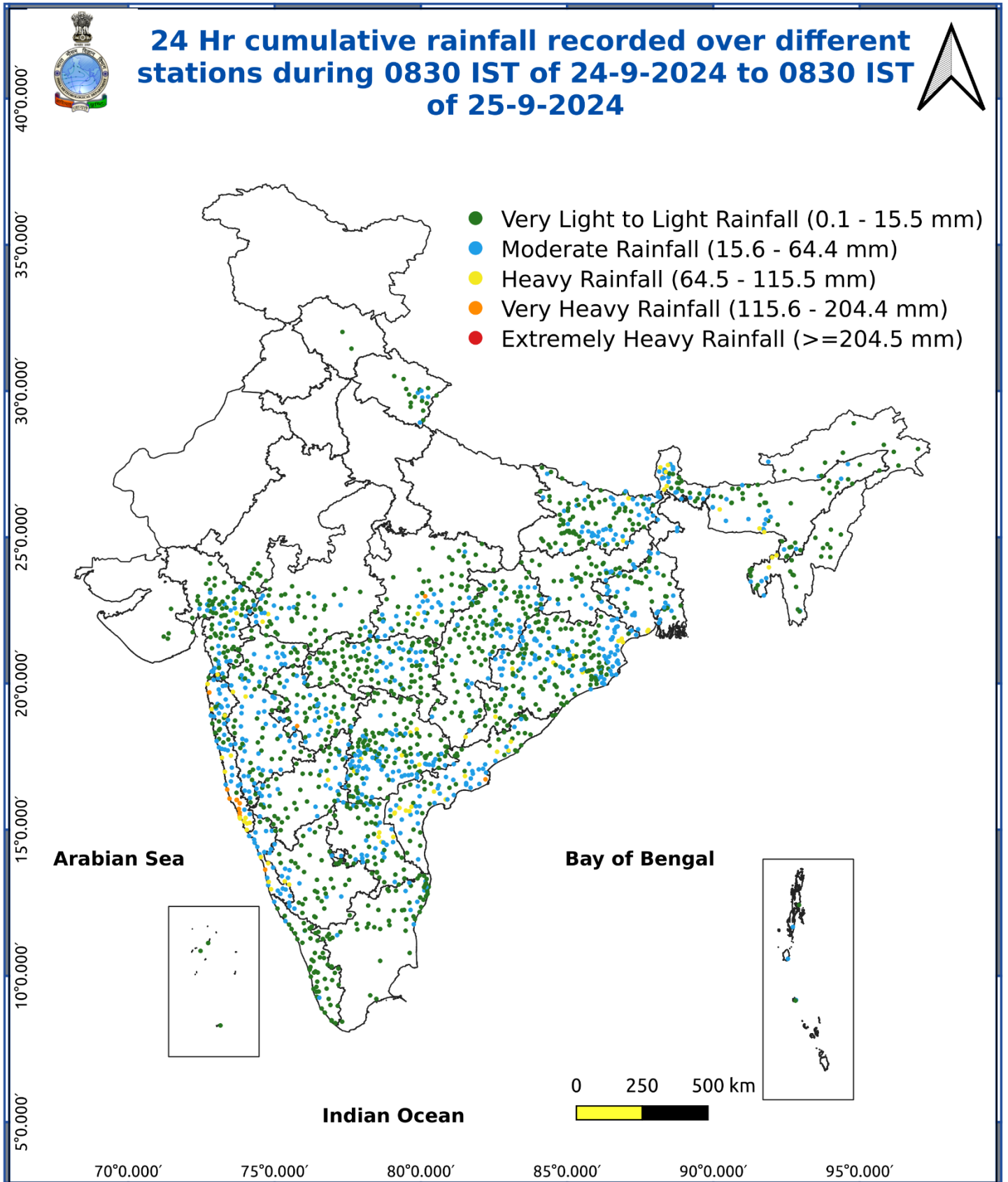
Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



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(Service to the Nation since 1875)

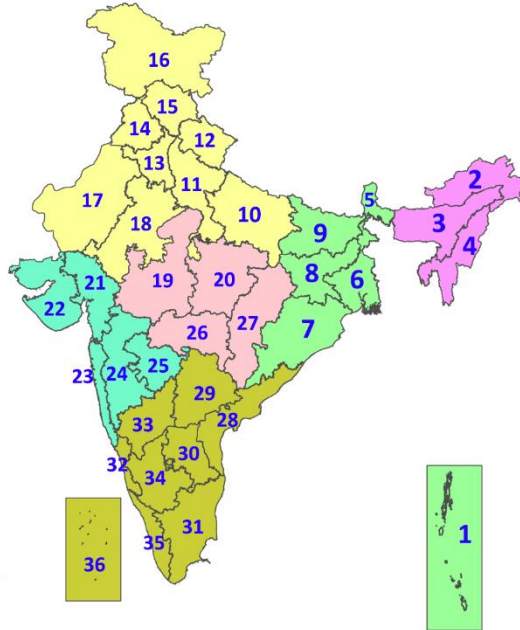
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".  
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.  
For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599  
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## LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और माहे
36. लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidarbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

% 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 Wave



Heavy Rain



Dust Storm



Cold Day



Very Heavy Rain



Heat Wave



Ground Frost



Extremely Heavy Rain



Warm Night



Thunder & Lightning



Hot Day



Hailstorm



Hot & Humid



Dust Raising Winds



Strong Surface Winds

### COLOUR CODED WARNING

No Warning (No Action)
Watch (Be Aware)
Alert (Be Prepared To Take Action)
Warning (Take Action)

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

## DEFINITION/CRITERIA

### Rain/ Snow \*

Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm\*  
Extremely Heavy: > 204.4 mm/cm \*

### Heat Wave

When maximum temperature of a station reaches  $\geq 40^\circ\text{C}$  for plains and  $\geq 30^\circ\text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .

Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^\circ\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^\circ\text{C}$ .

Severe Heat Wave: When actual maximum temperature  $\geq 47^\circ\text{C}$

(c) Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^\circ\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^\circ\text{C}$

### Warm Night

When maximum temperature remains  $40^\circ\text{C}$

Warm Night: When minimum temperature departure  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .

Severe Warm Night: When minimum temperature departure  $> 6.4^\circ\text{C}$ .

### Cold Wave

When minimum temperature of a station  $\leq 10^\circ\text{C}$  for plains and  $\leq 0^\circ\text{C}$  for hilly regions.  
(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .

Severe Cold Wave: Minimum Temperature Departure from normal  $\leq -6.5^\circ\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is  $\leq 4.0^\circ\text{C}$

Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^\circ\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^\circ\text{C}$  & actual Minimum Temperature is  $\leq 15^\circ\text{C}$

### Cold Day

When minimum temperature of a station  $\leq 10^\circ\text{C}$  for plains and  $\leq 0^\circ\text{C}$  for hilly regions  
Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .

Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^\circ\text{C}$

### Fog

Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{km}$

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

### Thunderstorm

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  $\leq 4^\circ\text{C}$  ( over Plains)

### Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed  $> 87$  kmph

### Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed  $> 117$  kmph ( $> 63$  knots) & Wave height  $> 14$  metre

### Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 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)