Monday, September 16, 2024
Time of Issue: 2000 hours IST
(NIGHT)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems:

- ✓ The **Deep Depression** over Gangetic West Bengal and adjoining Jharkhand moved westwards with a speed of 20 kmph during past 6 hours and lay centered at 1730 hours IST of today, the 16th September 2024, over Jharkhand near latitude 23.3° N and longitude 85.2° E close to west of Ranchi (Jharkhand), around 140 km southeast of Daltonganj (Jharkhand), about 200 km east of Ambikapur (Chhattisgarh) & 260 km southeast of Churk. It is likely to continue to move west-northwestwards across Jharkhand and weaken into a depression during next 12 hours. Thereafter, it will continue to move west-northwestwards across North Chhattisgarh & East Madhya Pradesh during subsequent 24 hours.
- ✓ The western end of monsoon trough is north of its normal position and eastern end is near its normal position.

Forecast & Warnings (upto 7 days):

West & Central India:

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Vidarbha, Madhya Pradesh, Konkan & Goa; Isolated to Scattered light/moderate rainfall very likely over Chhattisgarh, Madhya Maharashtra, Marathwada & Gujarat State during the week.
- ✓ **Isolated very heavy rainfall** very likely over East Madhya Pradesh, Chhattisgarh on 16th & 17th September.
- ✓ Isolated **heavy rainfall** very likely over East Madhya Pradesh on 18th and West Madhya Pradesh on 17th & 18th September.

East & Northeast India

- ✓ Fairly widespread to Widespread light/moderate rainfall very likely over Andaman & Nicobar Islands; Isolated to scattered light/moderate rainfall very likely over East & Northeast India during the week.
- ✓ **Isolated extremely heavy rainfall** very likely over Jharkhand on 16th September.
- ✓ Isolated **very heavy rainfall** very likely over Odisha on 16th and Jharkhand on 17th September.
- ✓ Isolated **heavy rainfall** very likely over Gangetic West Bengal on 16th; Bihar on 16th & 17th; Odisha on 17th; Nagaland, Manipur, Mizoram & Tripura on 18th & 19th; Andaman & Nicobar Islands on 16th, 19th & 20th September.

Northwest India

- ✓ Isolated to scattered light/moderate rainfall very likely over the region except Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad where weather is likely to remain dry during the week.
- ✓ Isolated **very heavy rainfall** very likely over East Uttar Pradesh on 16th & 17th and over West Uttar Pradesh on 17th September.
- ✓ Isolated **heavy rainfall** very likely over Uttarakhand on 17th & 19th and over East Rajasthan and West Uttar Pradesh on 18th September.

South Peninsular India:

- ✓ Isolated to scattered light/moderate rainfall over the region during the week.

Main Weather Observations:

- **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of today): **at most places** over Gangetic West Bengal & Odisha; **at many places** over East Madhya Pradesh; **at a few places** over Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim; at **isolated places** over East Uttar Pradesh, Chhattisgarh, Assam & Meghalaya, Telangana, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Karnataka, Lakshadweep, Andaman & Nicobar Islands.

- **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of today (in cm): **Odisha:** Bhadrak 5, Jajpur 3; **East Madhya Pradesh:** Satna & Rewa KVK 4 each, Umaria & Rewa 2 each**; Gangetic West Bengal:** Basirhat 5, Purulia 4, Panagarh & Canning 3 each, Asansol 2; **East Uttar Pradesh:** Bahraich 3; **Jharkhand:** Jamshedpur, Chaibasa & Ranchi 3 each; **Andaman & Nicobar Islands**: Car Nicobar 3.

- **Minimum Temperature Departures (as on 16-09-2024):** Minimum temperatures are **above normal (1.6°C to 3.0°C**) at a few places over Andaman & Nicobar Islands; at isolated places over Arunachal Pradesh, Assam & Meghalaya, East Uttar Pradesh, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. These are **below normal (-1.6°C to -3.0°C)** at isolated places over Gangetic West Bengal, East Rajasthan and Madhya Maharashtra and **near normal** over rest parts of the country. Today, **the lowest minimum temperature** of **17.9°C** is reported at **Baramati (Madhya Maharashtra)** over the plains of the country. **(Fig.4)**

- **Maximum Temperature Departures (as on 16-09-2024):** Maximum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at most places over Kerala & Mahe, Himachal Pradesh; at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Andaman & Nicobar Islands; at isolated places over Punjab, Vidarbha & Marathwada. These are **markedly below normal (-5.1°C or less**) at few places over Gangetic West Bengal and at isolated places over Jharkhand, Odisha, Chhattisgarh & Bihar; **below normal (-1.6°C to -3.0°C)** at a few places over East Rajasthan; at isolated places over East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and **near normal** over rest parts of the country. Today, **the highest Maximum Temperature** of **40.3°C** is reported at **Madurai (Tamil Nadu)** over the country. **(Fig. 2)**

Meteorological Analysis (Based on 1730 hours IST)

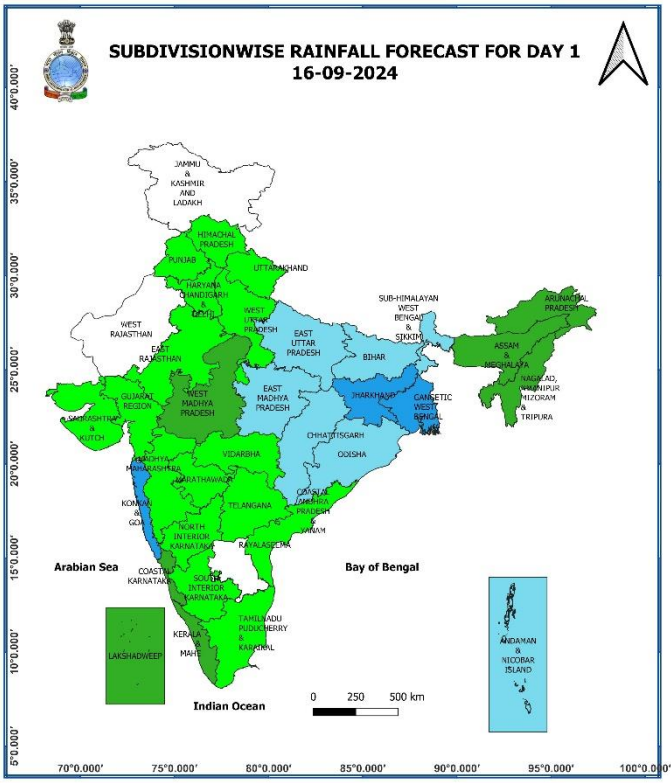
- The **Deep Depression** over Gangetic West Bengal and adjoining Jharkhand moved westwards with a speed of 20 kmph during past 6 hours and lay centered at 1730 hours IST of today, the 16th September 2024, over Jharkhand near latitude 23.3° N and longitude 85.2° E close to west of Ranchi (Jharkhand), around 140 km southeast of Daltonganj (Jharkhand), about 200 km east of Ambikapur (Chhattisgarh) & 260 km southeast of Churk. It is likely to continue to move west-northwestwards across Jharkhand and weaken into a **depression** during next 12 hours. Thereafter, it will continue to move west-northwestwards across North Chhattisgarh & East Madhya Pradesh during subsequent 24 hours.

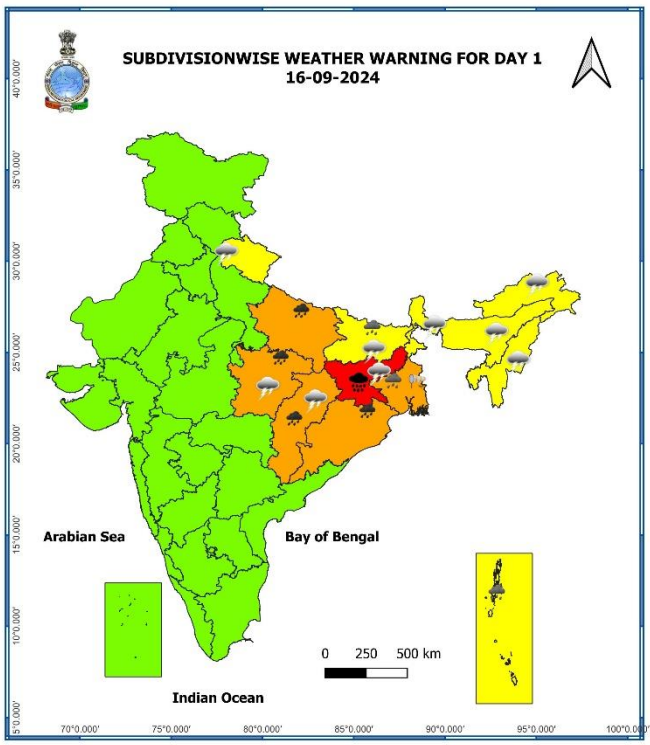
- The **Monsoon trough** at mean sea level continues to pass through Amritsar, Rohtak, Shahjahanpur, Lucknow, Daltonganj, the centre of **Deep depression** over Jharkhand and thence southeastwards to northeast Bay of Bengal.

- The **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now lies roughly along Long. 62°E to the north of Lat. 25°N.

- The **cyclonic circulation** over Himachal Pradesh & neighbourhood between 3.1 & 5.8 km above mean sea level persists.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 23rd September, 2024)



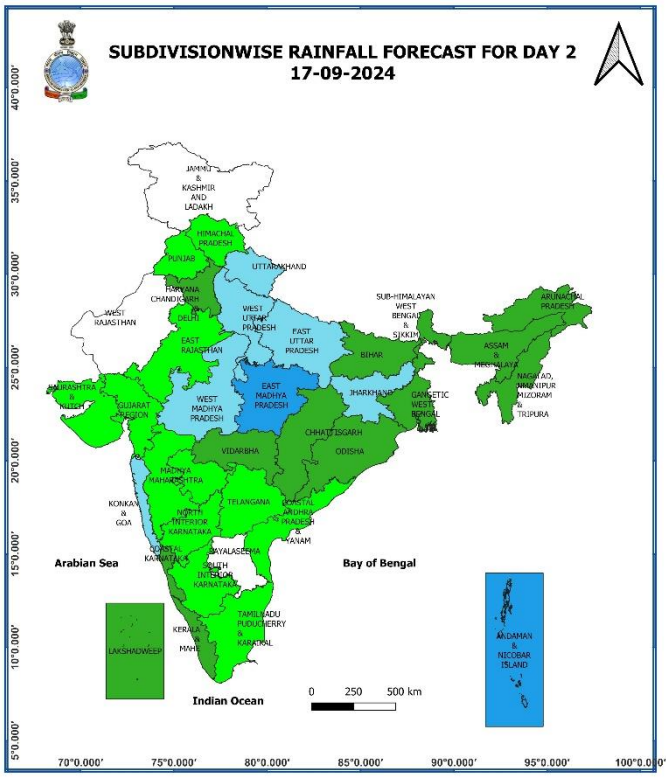


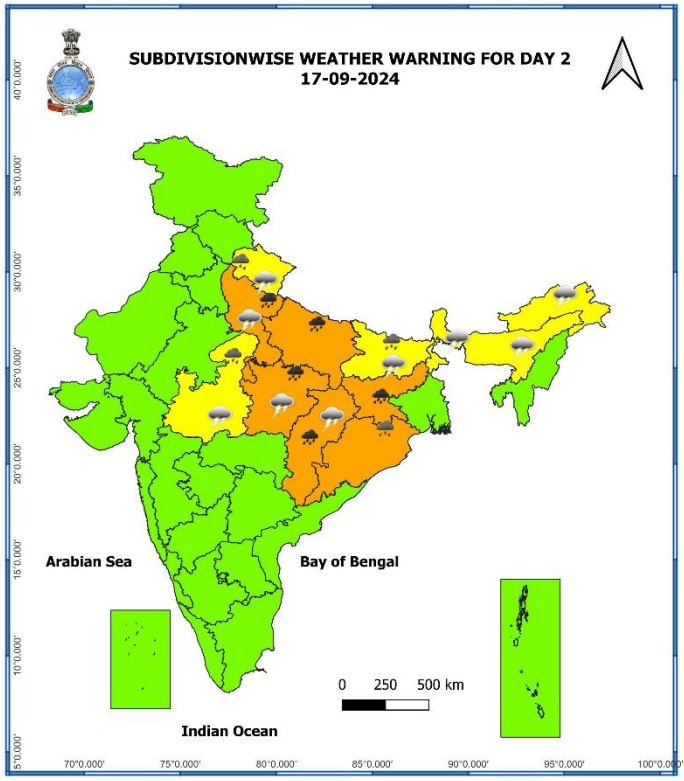
16 September (Day 1):

- **Heavy to very heavy rainfall (≥12 cm) with extremely heavy falls (> 20 cm)** very likely at isolated places over Jharkhand; **Heavy to very heavy rainfall (≥12 cm)** at isolated places over East Madhya Pradesh, East Uttar Pradesh, Chhattisgarh, Odisha; **Heavy rainfall (≥7 cm)** at isolated places over Gangetic West Bengal, Bihar, Andaman & Nicobar Islands.

- **Thunderstorm accompanied with lightning** very likely at isolated places over Uttarakhand, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

- **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over few parts of west central Arabian sea, off Sri Lanka coast, many parts of south Bay of Bengal, southern parts of central Bay of Bengal, many parts of northwest Bay of Bengal and adjoining parts of northeast Bay of Bengal, along and off north Odisha, west Bengal and adjoining Bangladesh, coasts**. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over gulf of Mannar, along and off north Odisha, west Bengal coasts, and Bangladesh coast. **Squally weather with wind speed reaching 50 kmph to 60 kmph gusting to 70 kmph** likely to prevail over north Bay of Bengal along and off north Odisha, west Bengal coasts, and adjoining Bangladesh coast. **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 parts of westcentral Arabian sea, along and off Somalia coast. Fishermen are advised not to venture into these areas.



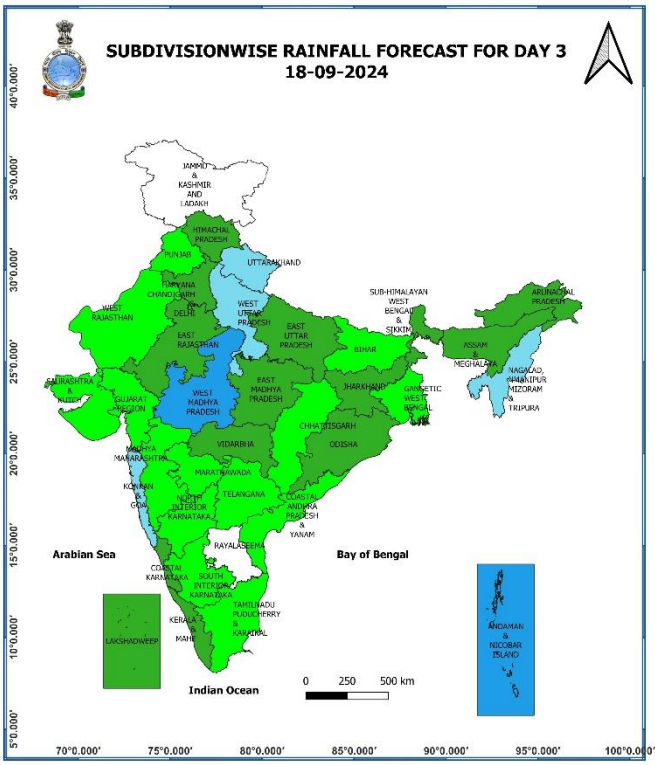


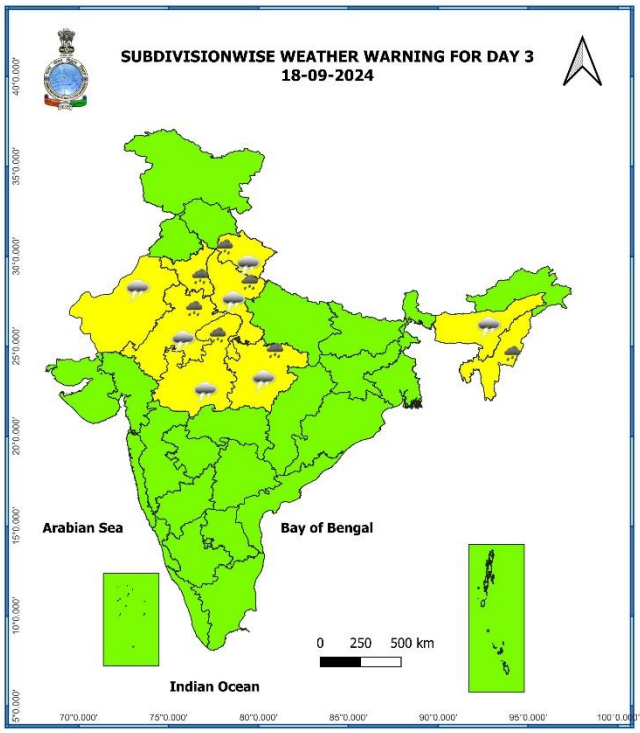
17 September (Day 2):

- **Heavy to very heavy rainfall (≥12 cm)** very likely at isolated places over Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Jharkhand; **Heavy rainfall (≥7 cm)** at isolated places over Uttarakhand, West Madhya Pradesh, Bihar and Odisha.

- **Thunderstorm accompanied with lightning** very likely at isolated places over Uttarakhand, West Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya.

- **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over few parts of west central Arabian sea, off Sri Lanka coast, most parts of south Bay of Bengal, many parts of northwest Bay of Bengal and adjoining parts of northeast Bay of Bengal, along and off north Odisha, west Bengal and adjoining Bangladesh, coasts. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over gulf of Mannar. **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 parts of westcentral Arabian sea, along and off Somalia coast. Fishermen are advised not to venture into these areas.



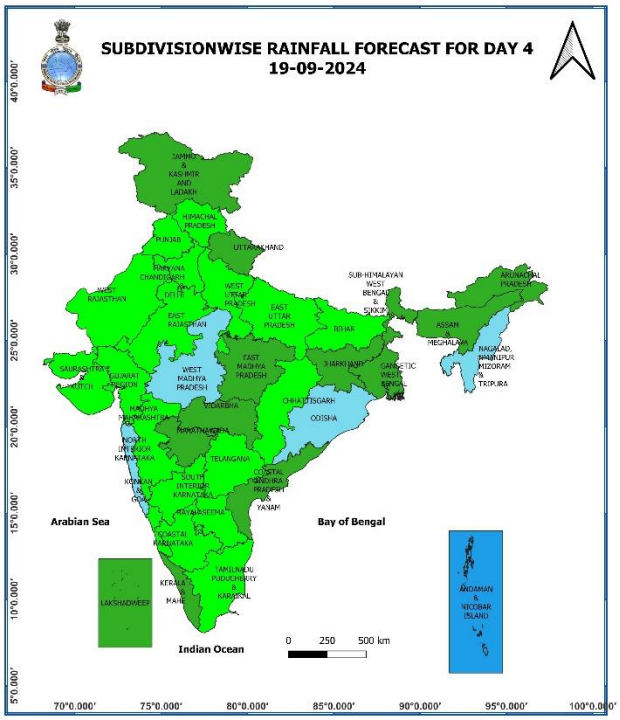


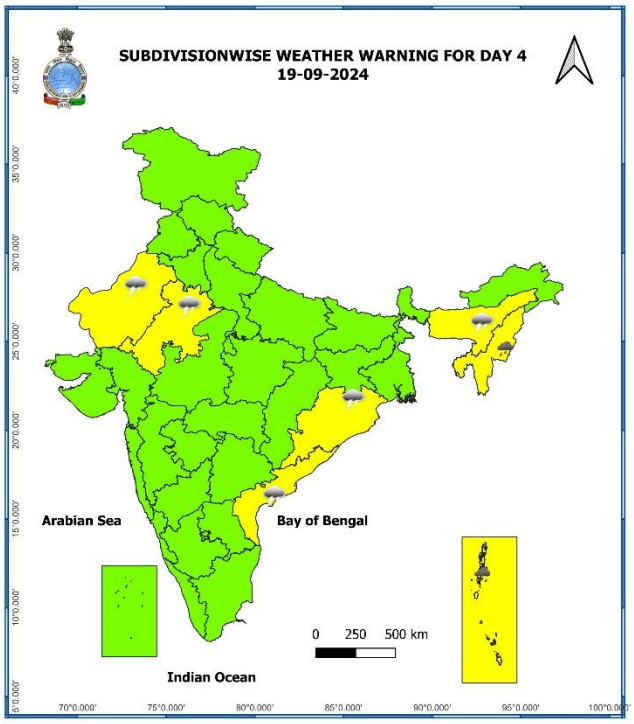
18 September (Day 3):

- **Heavy rainfall (≥7 cm)** very likely at isolated places over Uttarakhand, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura.

- **Thunderstorm accompanied with lightning** very likely at isolated places over Uttarakhand, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Assam & Meghalaya.

- **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over few northern parts of southwest Arabian sea and adjoining parts of westcentral Arabian sea, over gulf of Mannar, off Sri Lanka coast, most parts of south 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 parts of westcentral Arabian sea, along and off Somalia coast. Fishermen are advised not to venture into these areas.



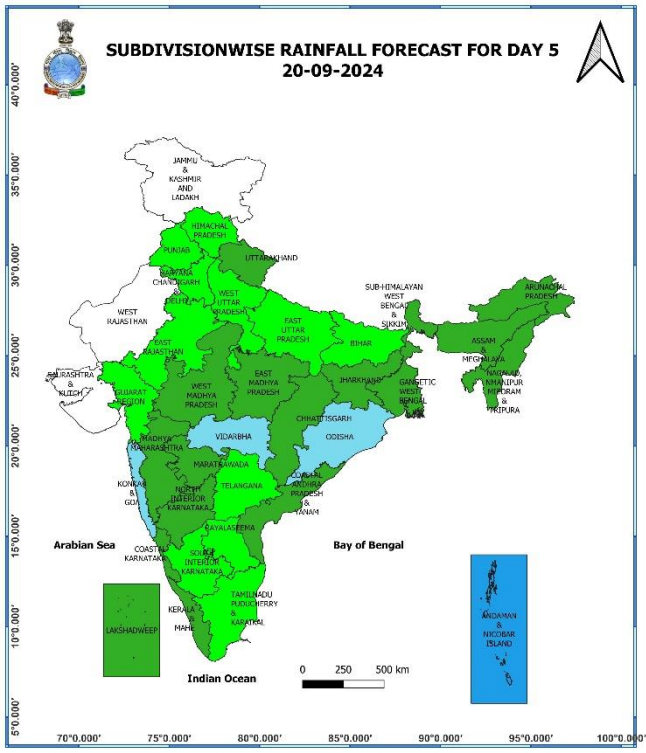


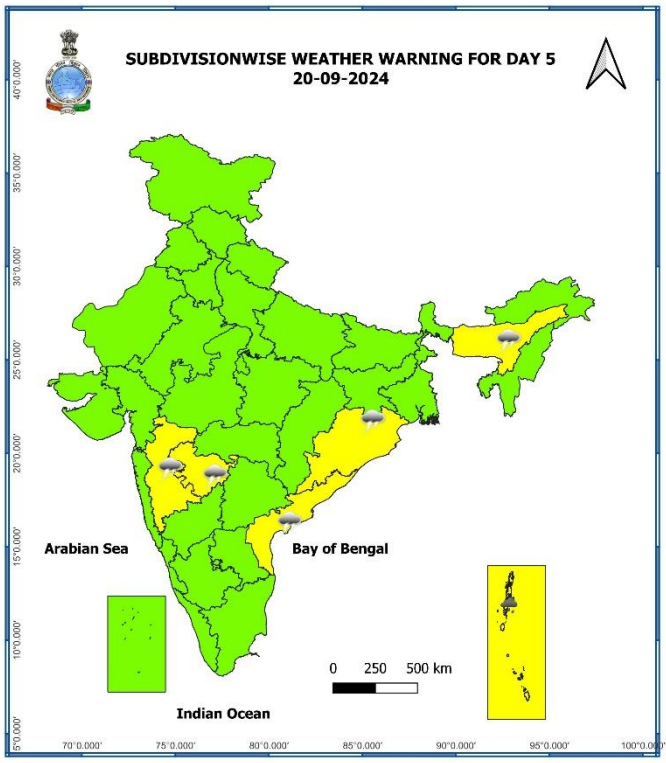
19 September (Day 4):

- **Heavy rainfall (≥7 cm)** likely at isolated places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura.

- **Thunderstorm accompanied with lightning** likely at isolated places over Rajasthan, Odisha, Assam & Meghalaya, and Coastal Andhra Pradesh & Yanam.

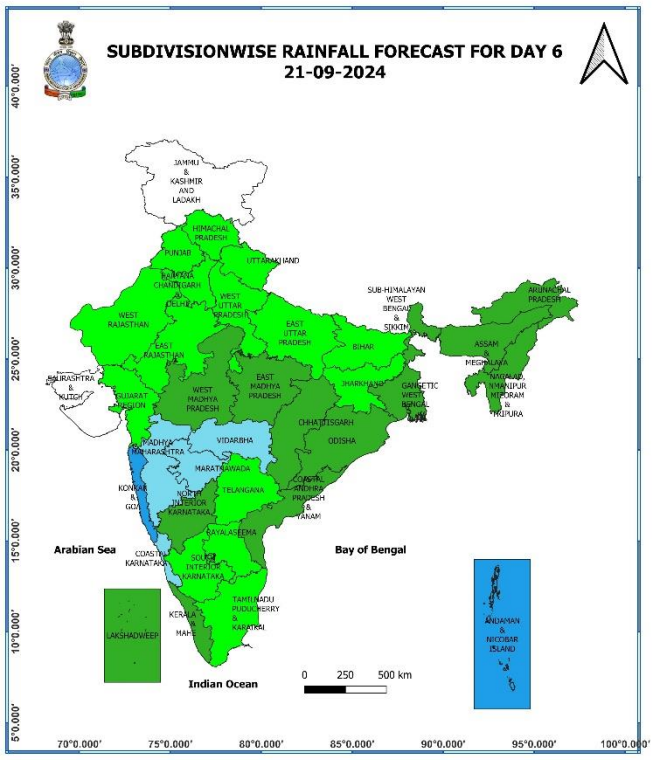
- **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over few northern parts of southwest Arabian sea and adjoining parts of westcentral Arabian sea, over gulf of Mannar, off Sri Lanka coast, most parts of south Bay of Bengal**. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over along and off Somalia coast and adjoining parts of westcentral Arabian sea. Fishermen are advised not to venture into these areas.

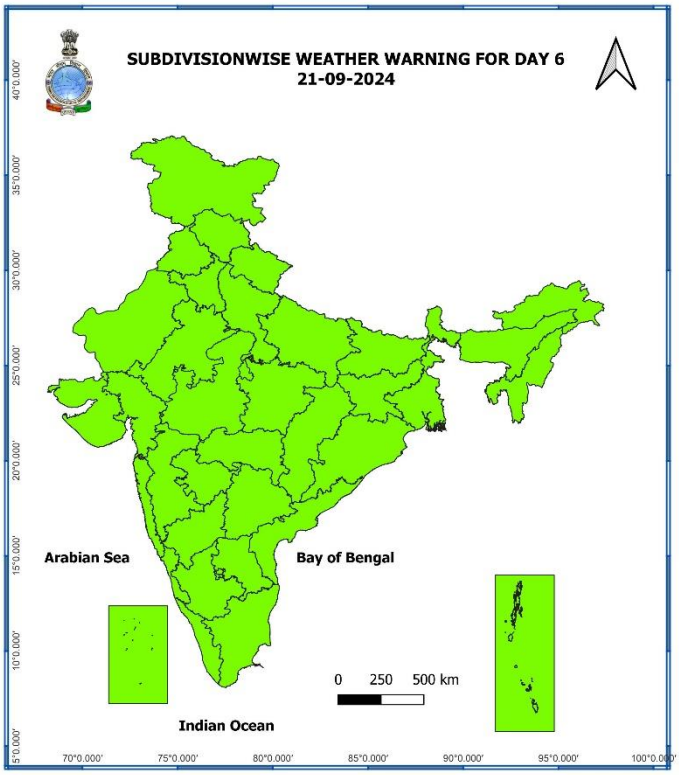




20 September (Day 5):

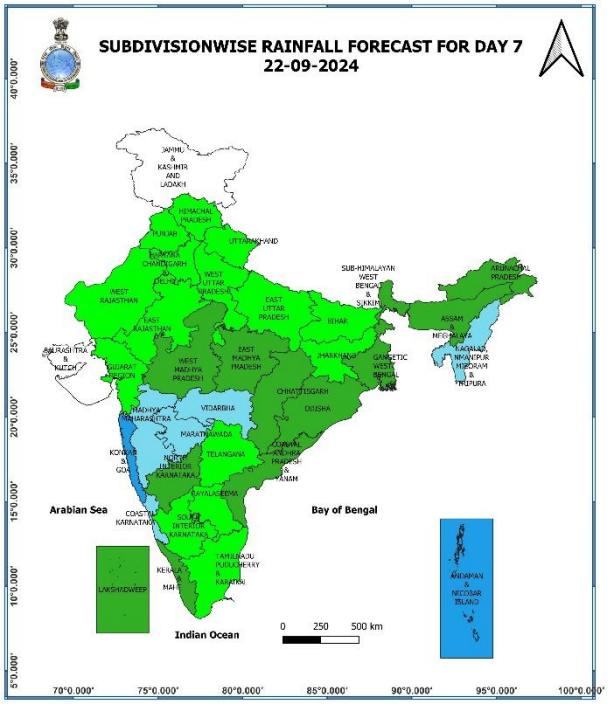
- **Heavy rainfall (≥7 cm)** likely at isolated places over Andaman & Nicobar Islands.
- **Thunderstorm accompanied with lightning** likely at isolated places over Odisha, Assam & Meghalaya, Madhya Maharashtra, Marathwada and Coastal Andhra Pradesh & Yanam.
- **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over gulf of Mannar, off Sri Lanka coast, most parts of south Bay of Bengal. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over along and off Somalia coast and adjoining southwest Arabian sea. Fishermen are advised not to venture into these areas.

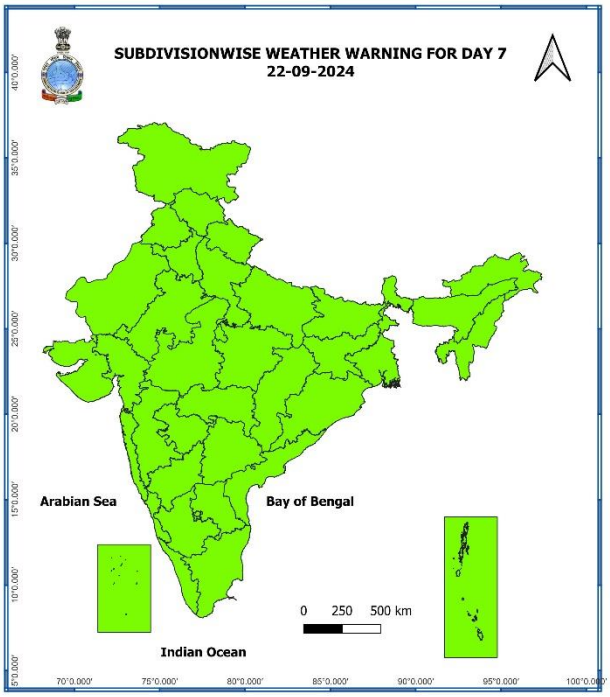




21 September (Day 6):

- **No weather warning.**





22 September (Day7):

- **No weather warning**.

Weather Outlook for subsequent 3 days (During 23rd September– 25th September, 2024)

- Fairly widespread to widespread rainfall likely over most parts of the country except Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan, Gujarat state, Punjab, Tamil Nadu, Puducherry & Karaikal 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.**

Impact due to

- ✓ Isolated **extremely heavy rainfall** very likely at isolated places over Jharkhand on 16th September.
- ✓ **Very heavy rainfall** at isolated places over East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh on 16th & 17th; Jharkhand and West Uttar Pradesh on 17th; Odisha on 16th September.
- ✓ **Low to Moderate flash flood risk** likely over few watersheds & neighbourhoods of East Uttar Pradesh, Chhattisgarh, Bihar & Jharkhand on 16th & 17th 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 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

- ➢ Drain out excess water from maize, pulses and millets in **Chhattisgarh;** from cotton, maize, soybean, pulses and vegetables in **East Madhya Pradesh;** from rice, groundnut, brinjal, cucurbits and betel vine gardens in **Gangetic West Bengal**; from maize, green gram, black gram, rice, vegetables and other standing crops in **Odisha**; from pulse crops and vegetables in **Jharkhand**; from rice, black gram, green gram, orchards and vegetables in **Bihar** to prevent water logging**.**
- ➢ Make provision for draining out excess water from standing crop fields and fruit orchards to avoid water stagnation in East Uttar Pradesh and West Madhya Pradesh.
- ➢ Provide mechanical support to horticultural crops & staking to vegetables.
- ➢ Keep the harvested produce at safer place.

Flash Flood Guidance:

ANNEXURE I

<u>24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 17-09-2024:</u>

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

East Uttar Pradesh - Chandauli, Mirzapur and Sonbhadra districts.
Chhattisgarh - Balarampur, Jashpur, Korea and Surajpur districts.
Bihar - Aurangabad, Bhabua, Gaya and Rohtas districts.
Jharkhand - Garhwa, Latehar, Lohardaga and Palamu 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.

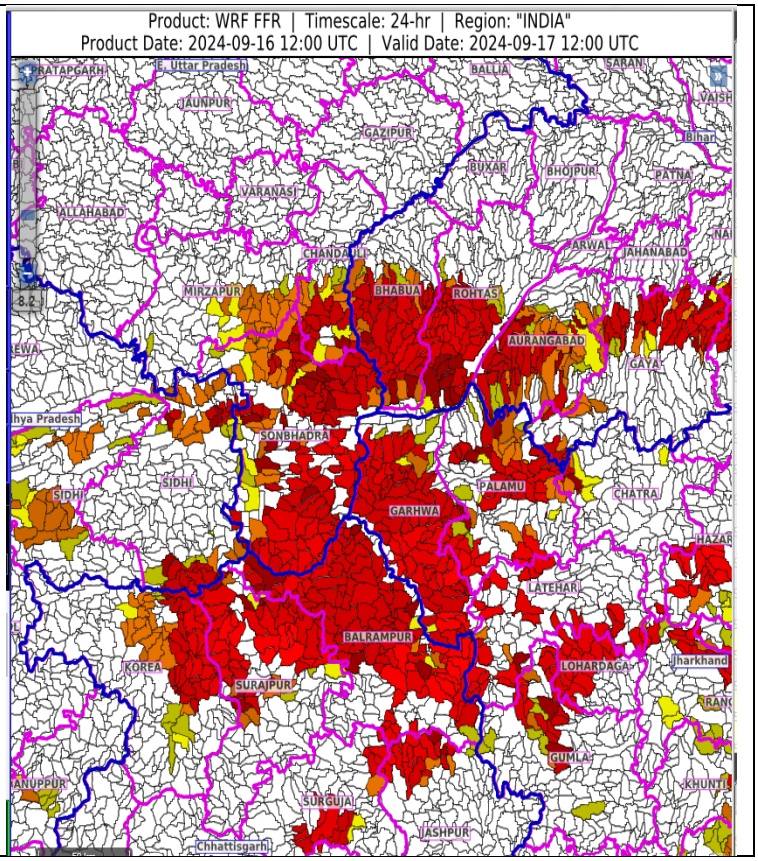


Fig. 1: Maximum Temperatures

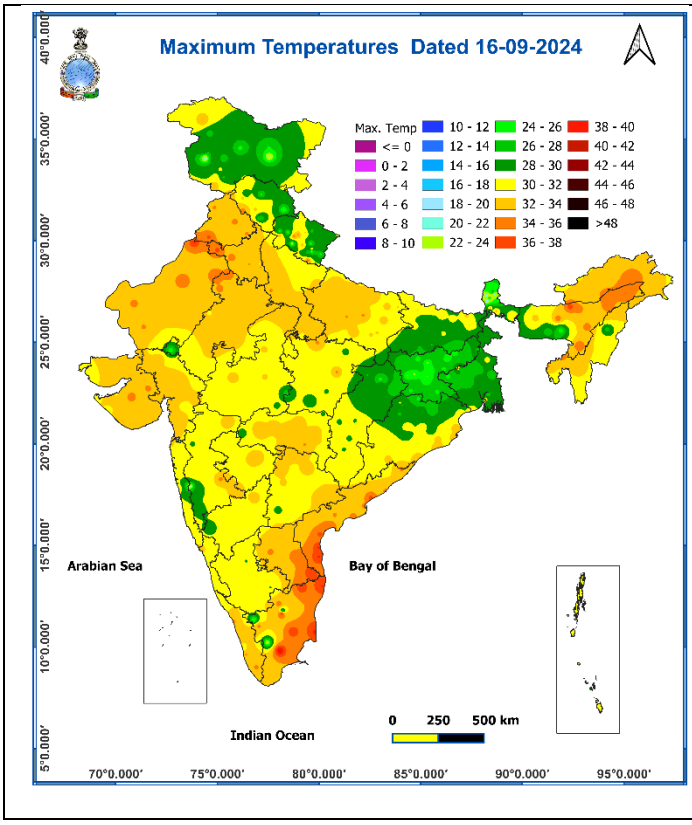


Fig. 2: Departure of Maximum Temperatures

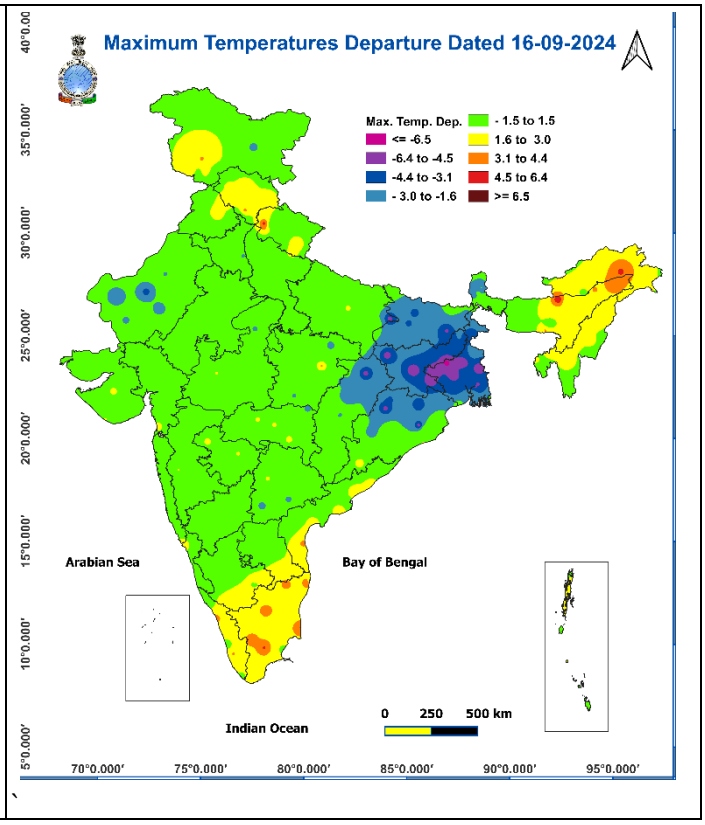


Fig. 3: Minimum Temperatures

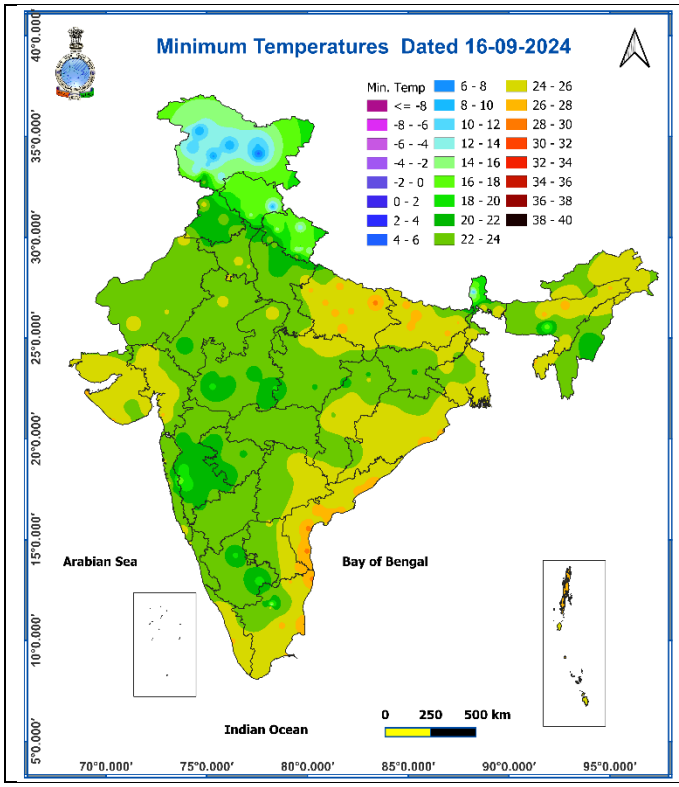
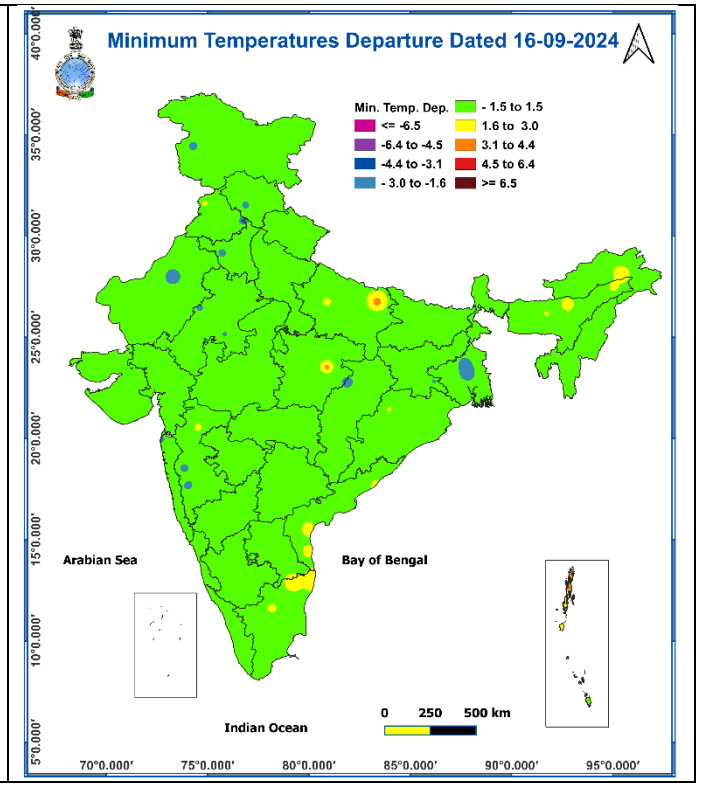
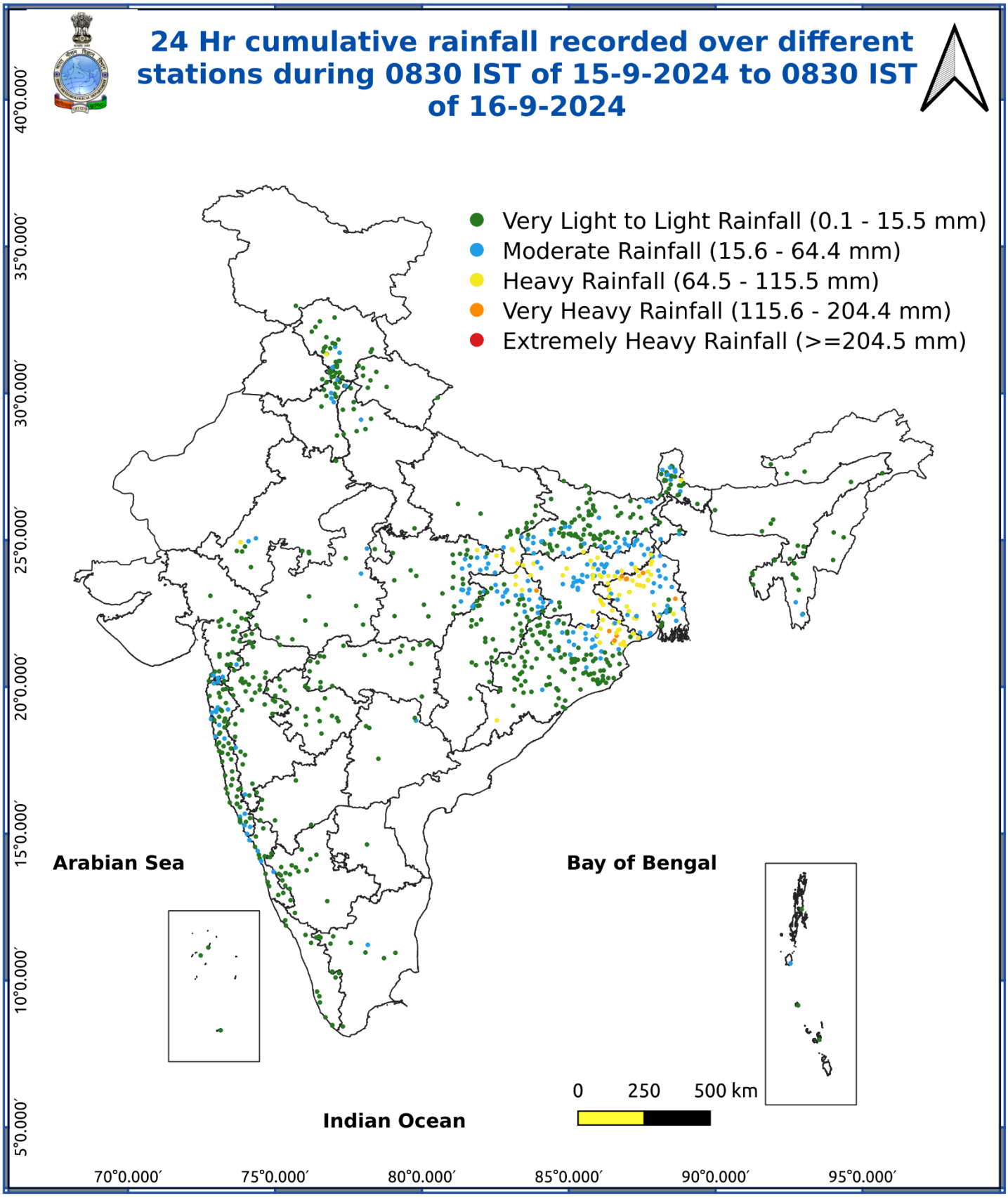


Fig. 4: Departure of Minimum Temperatures



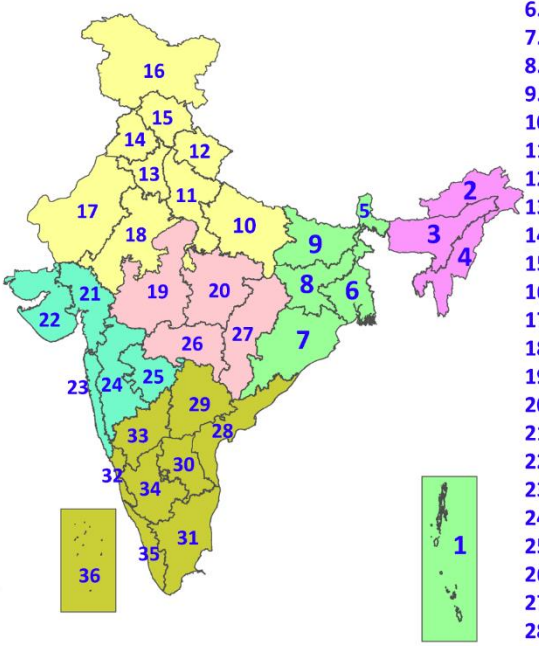
* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.
For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599
(Service to the Nation since 1875)

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



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 Rain
Very Heavy Rain
Extremely Heavy Rain
Thunder & Lightning
Hailstorm
Dust Raising Winds

Heavy Snow
Dust Storm
Heat Wave
Warm Night
Hot Day
Hot & Humid
Strong Surface Winds

Cold Wave
Cold Day
Ground Frost

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

* 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

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 ≥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 ≥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

Warm Night

When maximum temperature remains 40°C

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

Cold Day

When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions
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

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility < 1km

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 ≤4°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)

* 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)