

राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Monday, September 9, 2024 Time of Issue: 1345 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems:

- Yesterday's depression over Westcentral & adjoining Northwest Bay of Bengal concentrated into a Deep Depression over Northwest & adjoining Westcentral Bay of Bengal at 2330 hours IST of yesterday. It moved nearly north-northwestwards and lay centred at 0830 hours IST of today, the 9th September, 2024 over northwest Bay of Bengal near latitude 19.6°N and longitude 86.2°E, about 50 km east-southeast of Puri (Odisha), 90 km southwest of Paradip (Odisha), 140 km east-northeast of Gopalpur (Odisha), 140 km south-southwest of Chandbali (Odisha), 260 km east-northeast of Kalingapatnam (Andhra Pradesh) and 260 km south-southwest of Digha (West Bengal). It is very likely to move nearly northwestwards and cross Odisha coast near Puri during next 3 hours of today, the 9th September, 2024. Continuing to move further northwestwards across Odisha, it is likely to maintain its intensity of Deep Depression till evening and weaken gradually into a Depression by midnight of today, the 9th September. Thereafter, it is likely to move west-northwestwards across Chhattisgarh during subsequent 24 hours.
- A trough runs from Southwest Uttar Pradesh to the centre of Deep Depression over northwest Bay of Bengal across north Madhya Pradesh, Chhattisgarh & Odisha and extends upto 3.1 km above mean sea level tilting southwards with height
- The **monsoon trough** is south of its normal position at mean sea level. It is likely to continue so for next 3-4 days.

Forecast & Warnings (upto 7 days):

South Peninsular India:

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Coastal Karnataka, Kerala & Mahe, Lakshadweep; Scattered to Fairly widespread light/moderate rainfall over Coastal Andhra Pradesh & Yanam, Telangana; isolated to scattered rainfall over Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Interior Karnataka during the week.
- ✓ Isolated **very heavy rainfall** very likely over Telangana and Coastal Andhra Pradesh & Yanam on 09th September.
- Isolated heavy rainfall very likely over Kerala and Mahe, South Interior Karnataka, Coastal Andhra Pradesh & Yanam on 09th & 10th; Coastal Karnataka during 09th-11th September.

East & Northeast India

- Fairly widespread to widespread light/moderate rainfall very likely over Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands, West Bengal & Sikkim, Odisha during the week; Scattered to Fairly widespread light/moderate rainfall very likely over Arunachal Pradesh, Assam & Meghalaya, Bihar during the week.
- ✓ Isolated extremely heavy rainfall very likely over Odisha on 09th September.
- Isolated very heavy rainfall very likely over Odisha on 10th; Meghalaya on 12th & 13th; Nagaland, Manipur, Mizoram & Tripura during 11th -13th September.
- Isolated heavy rainfall very likely over Jharkhand during 09th -13th; Gangetic West Benga and Arunachal Pradesh during 10th-13th; Sub-Himalayan West Bengal & Sikkim, Bihar during 11th -13th; Odisha on 11th; Assam & Meghalaya during 10th-14th; Nagaland, Manipur, Mizoram & Tripura during 09th-13th September.

West & Central India:

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over West and Central India during the week.
- ✓ Isolated extremely heavy rainfall very likely over Vidarbha, Chhattisgarh on 09th and over East Madhya Pradesh on 10th September.
- Isolated very heavy rainfall very likely over West Madhya Pradesh on 10th & 11th; East Madhya Pradesh during 09th -11th; Vidarbha on 10th September.
- ✓ Isolated heavy rainfall very likely over Madhya Pradesh during next 7 days; Chhattisgarh on 10th; Vidarbha, Konkan & Goa, ghats area of Madhya Maharashtra, Gujarat Region during 09th -11th September.

Northwest India

- Fairly widespread to widespread light/moderate rainfall very likely over Uttarakhand, East Rajasthan, Uttar Pradesh; isolated to scattered rainfall over the remaining region during the week.
- Isolated very heavy rainfall very likely over East Uttar Pradesh on 10th & 11th; West Uttar Pradesh during 11th -13th; East Rajasthan on 11th & 12th; Haryana on 12th; Uttarakhand on 12th & 13th September.
- Isolated heavy rainfall very likely over East Rajasthan during next 7 days; West Uttar Pradesh, Uttarakhand during 09th -14th; East Uttar Pradesh during 10th -14th and over Haryana on 11th September.





Main Weather Observations:

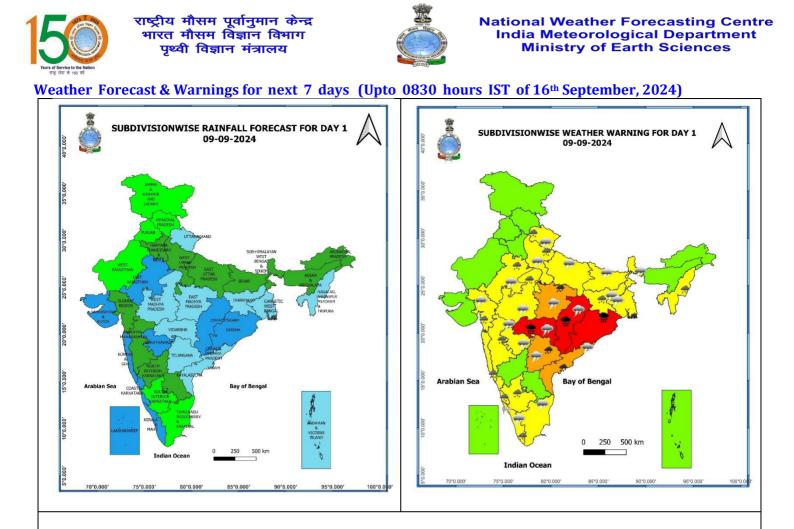
- Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Chhattisgarh, Odisha, Konkan & Goa, Kerala & Mahe, Lakshadweep, Coastal Karnataka; at many places over East Rajasthan, West Madhya Pradesh, Vidarbha, Andaman & Nicobar Islands, Gangetic West Bengal, Jharkhand, Telangana, Coastal Andhra Pradesh & Yanam, North Interior Karnataka; at a few places over Himachal Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, East Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Gujarat Region, Rayalaseema, South Interior Karnataka; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, West Uttar Pradesh, Bihar, Arunachal Pradesh, Marathwada, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal.
- Heavy rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall with isolated extremely heavy falls at a few places over Chhattisgarh, Odisha, East Rajasthan Heavy to very heavy rainfall at isolated places over Vidarbha; Heavy rainfall at isolated places over Haryana, West Madhya Pradesh, Assam & Meghalaya, Madhya Maharashtra, Gujarat Region, Coastal Karnataka.
- * Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Odisha: Malkangiri (Malkangiri) 25, Chitrakunda K Guma (Malkangiri) 23, Korukunda (Malkangiri) 20, Mathili (Malkangiri) 15, Lamataput (Koraput) 13, Ambadola (Rayagada) 12, Padia (Malkangiri) 10, Chhatrapur (Ganjam) 10, Digapahandi (Ganjam) 9, Gopalpur (Ganjam) 9, Jeypore (Koraput) 9, Similiguda (Koraput) 9; East Rajasthan: Nagar Sr (dist Bharatpur) 22, Pahari Sr (dist Bharatpur) 12, Pratapgarh (dist Pratapgarh) 9, Dausa (dist Dausa) 9, Dhambola (dist Dungarpur) 9, Nithuwa Sr (dist Dungarpur) 9, Bagidora Sr (dist Banswara) 8; Chhattisgarh: Bhairamgarh (dist Bijapur) 21, Bijapur (dist Bijapur) 21, Kutaru (dist Bijapur) 21, Chhotedongar (dist Narayanpur) 20, Orcha (dist Narayanpur) 20, Kohkameta (dist Narayanpur) 20, Narayanpur (dist Narayanpur) 19, Tongpaal (dist Sukma) 18, Sukma (dist Sukma) 17, Gangalur (dist Bijapur) 16, Gadiras (dist Sukma) 14, Gidam (dist Dantewada) 14, Bastanar (dist Bastar) 14, Antagarh (dist Kanker) 14, Bade Bacheli (dist Dantewada) 13; Vidarbha Bhamragad (dist Gadchiroli) 16, Etapalli (dist Gadchiroli) 7, Ahiri (dist Gadchiroli) 7; **Coastal Andhra Pradesh & Yanam:** Chintapalle (dist Alluri Sitharamaraju) 13, Ranastalam (dist Srikakulam) 11, Pusapatirega (dist Vizianagaram) 10, Bondapalle (dist Vizianagaram) 10, Bheemunipatnam (dist Vishakhapatnam) 10; Haryana: Nagina Rev (dist Nuh) 10, Assam & Meghalaya: B P Ghat (dist Karimganj) 8, A P Ghat (dist Cachar) 7; Coastal Karnataka: Shirali Pto (dist Uttara Kannada) 8; West Madhya Pradesh: Karera (dist Shivpuri) 8, Satwas (dist Dewas) 8, Sanjeet (dist Mandsaur) 7.
- Minimum Temperature Departures (as on 09-09-2024): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Bihar, Himachal Pradesh, Punjab, West Rajasthan above normal (1.6°C to 3.0°C) at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, East Rajasthan, Gujarat state, Odisha, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Andaman & Nicobar Island, Karnataka. These are below normal (-1.6°C to -3.0°C) at isolated places over Coastal Andhra Pradesh & Yanam, Telangana and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.0°C is reported at Bulsar (Gujarat Region) over the plains of the country. (Fig.4)
- Maximum Temperature Departures (as on 08-09-2024): Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura; appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Uttar Pradesh, Bihar, Chhattisgarh; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at isolated places over Himachal Pradesh, West Uttar Pradesh, East Madhya Pradesh, Gangetic West Bengal, Konkan & Goa, Odisha & Tamil Nadu, Puducherry & Karaikal. These were markedly below normal (-5.1°C or Less) at isolated places over Coastal Andhra Pradesh & Yanam, Telangana, East Rajasthan; below normal (-1.6°C to -3.0°C) at isolated places over Haryana-Chandigarh-Delhi, Rayalaseema and near normal over rest parts of the country. Yesterday, the highest Maximum Temperature of 38.8°C was reported at Madurai (Tamil Nadu) over the country. (Fig. 2)





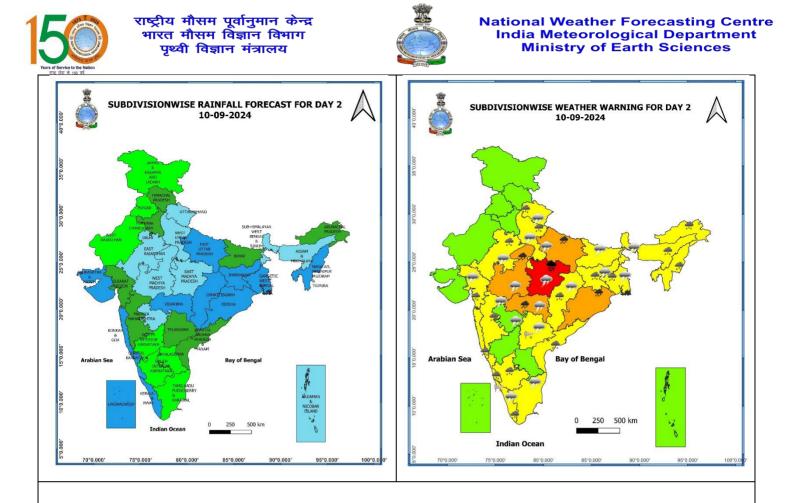
Meteorological Analysis (Based on 0830 hours IST)

- The deep depression over northwest and adjoining westcentral Bay of Bengal moved nearly north-northwestwards with a speed of 10 kmph during past 6 hours and lay centered at 0830 hours IST of today, the 9th September, 2024 over northwest Bay of Bengal near latitude 19.6°N and longitude 86.2°E, about 50 km east-southeast of Puri (Odisha), 90 km southwest of Paradip (Odisha), 140 km east-northeast of Gopalpur (Odisha), 140 km south-southwest of Chandbali (Odisha), 260 km east-northeast of Kalingapatnam (Andhra Pradesh) and 260 km south-southwest of Digha (West Bengal). It is very likely to move nearly northwestwards and cross Odisha coast near Puri during next 3 hours of today, the 9th September, 2024. Continuing to move further northwestwards across Odisha, it is likely to maintain its intensity of Deep Depression till evening and weaken gradually into a Depression by midnight of today, the 9th September. Thereafter, it is likely to move west-northwestwards across Chhattisgarh during subsequent 24 hours.
- The Monsoon trough at mean sea level now passes through Bikaner, Sikar, Khajuraho, Bilaspur, Puri and to the centre of deep depression over northwest Bay of Bengal and thence southeastwards to eastcentral Bay of Bengal.
- ✤ A trough runs from Southwest Uttar Pradesh to the centre of deep depression over northwest Bay of Bengal across north Madhya Pradesh, Chhattisgarh & Odisha and extends upto 3.1 km above mean sea level tilting southwards with height.
- The Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 72°E to the north of Lat. 32°N persists.
- The off-shore trough at mean sea level along north Karnataka to Kerala coasts has become less marked.
- The cyclonic circulation over central Rajasthan & neighbourhood at 1.5 km above mean sea level has become less marked.



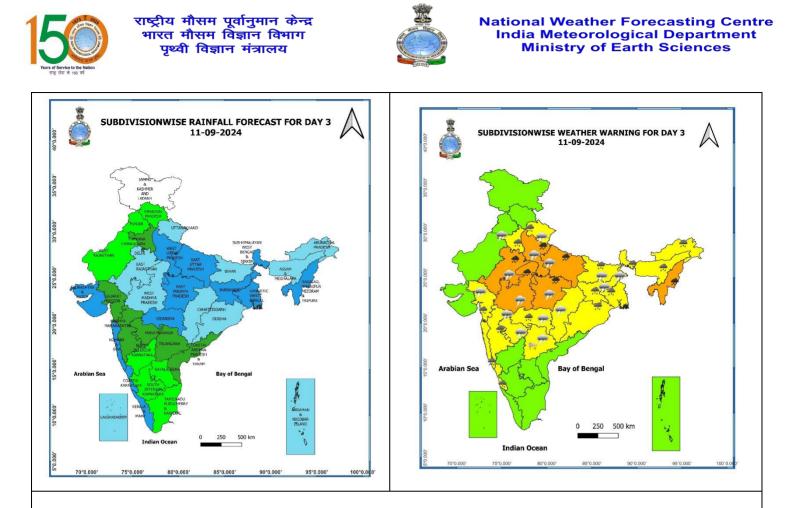
09 September (Day 1):

- ★ Heavy to very heavy rainfall (≥ 12 cm) with extremely heavy falls (>20 cm) very likely at isolated places over Odisha, Vidarbha and Chhattisgarh; Very heavy rainfall (≥ 12 cm) at isolated places over East Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Telangana; Heavy rainfall (≥ 7 cm) at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, ghat areas of Madhya Maharashtra, Gujarat Region, Kerala & Mahe, Coastal Karnataka, South Interior Karnataka.
- Thunderstorm accompanied with lighting and gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Kerala & Mahe; with lightning very likely at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, West Bengal & Sikkim, Bihar, Jharkhand, Madhya Maharashtra, Marathwada, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over southern parts of east central Arabian sea, along and off Sri Lanka coast, along and off Andhra Pradesh coast, most parts of south, central, and north Bay of Bengal, Andaman Sea. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over gulf of Mannar, along and off south Tamil Nadu, many parts of south, central, and north 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. Squally winds with speed reaching 55 kmph to 65 kmph gusting to 75 kmph likely to prevail along and off north Andhra Pradesh, Odisha, west Bengal coasts adjoining northwest and west central Bay of Bengal. Fishermen are advised not to venture into these areas.



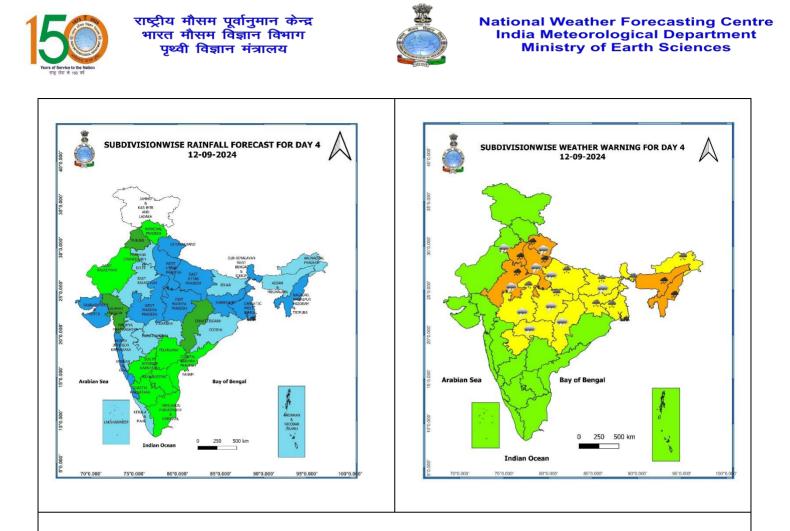
10 September (Day 2):

- ★ Heavy to very heavy rainfall (≥ 12 cm) with extremely heavy falls (>20 cm) very likely at isolated places over East Madhya Pradesh; Very heavy rainfall (≥ 12 cm) very likely at isolated places over East Uttar Pradesh, West Madhya Pradesh, Vidarbha, Odisha ; Heavy rainfall (≥ 7 cm) at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, Chhattisgarh, Gangetic West Bengal, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Coastal Karnataka & South Interior Karnataka.
- 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 at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, West Bengal & Sikkim, Bihar, Jharkhand, Madhya Maharashtra, Marathwada, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over many parts of east central and few northern parts of south Arabian sea, along and off Sri Lanka coast, most parts of south and central Bay of Bengal, northwest Bay of Bengal, many parts of northeast Bay of Bengal, along and off Andhra Pradesh, Odisha, west Bengal coasts, over north Andaman Sea. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over gulf of Mannar, most parts of westcentral adjoining parts of eastcentral Bay of Bengal, along and off north Andhra Pradesh, Odisha, west Bengal coasts, over northwest Bay of Bengal, along and off north Andhra Pradesh, Odisha, west Bengal coasts, over northwest Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over western parts of southwest Arabian sea & adjoining parts of westcentral Arabian sea, along and off Somalia coast. Fishermen are advised not to venture into these areas.



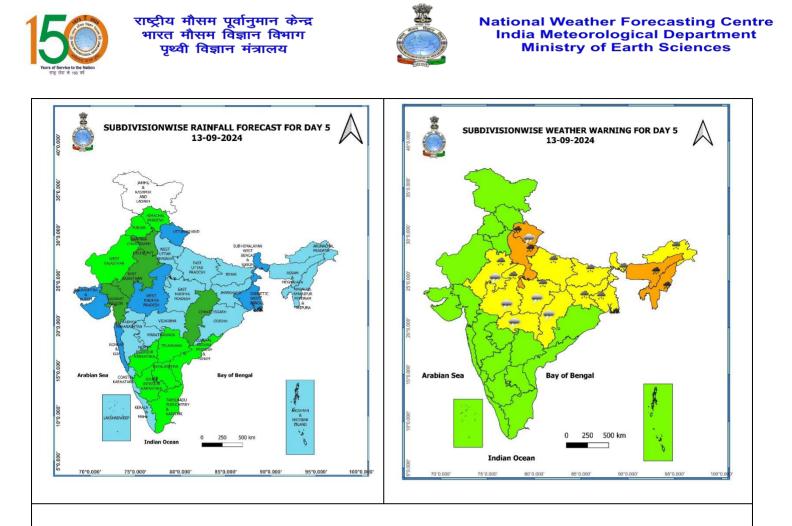
11 September (Day 3):

- ✤ Heavy to very heavy rainfall (≥ 12 cm) very likely at isolated places over Uttar Pradesh, Madhya Pradesh, East Rajasthan, Nagaland, Manipur, Mizoram & Tripura; Heavy rainfall (≥ 7 cm) likely at isolated places over Uttarakhand, Haryana-Chandigarh-Delhi, Vidarbha, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Gujarat Region & Coastal Karnataka.
- Thunderstorm accompanied with lighting and gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Telangana; with lightning very likely at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Madhya Maharashtra, Marathwada, Gujarat Region.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph is very likely to prevail over many parts of east central, northern parts of southwest & adjoining southeast Arabian sea, along and off Sri Lanka coast, most parts of south and central Bay of Bengal, northwest Bay of Bengal, along and off north Andhra Pradesh, Odisha coasts. squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over, gulf of Mannar, along and off south Tamilnadu coast, some parts of westcentral 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.



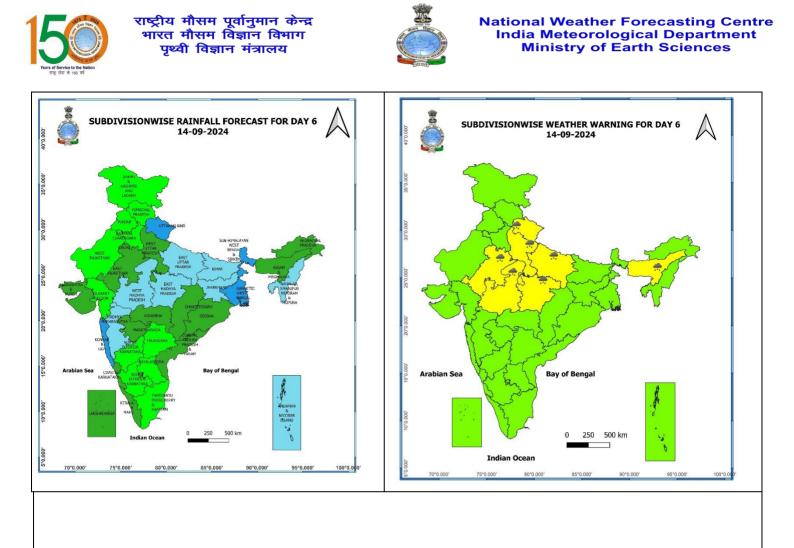
12 September (Day 4):

- ✤ Heavy to very heavy rainfall (≥ 12 cm) likely at isolated places over Uttarakhand, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; Heavy rainfall (≥ 7 cm) likely at isolated places over East Uttar Pradesh, Madhya Pradesh, West Bengal & Sikkim, Bihar, Jharkhand & Arunachal Pradesh.
- Thunderstorm accompanied with lighting likely at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha Bihar.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail many parts of east central, northern parts of southwest & adjoining southeast Arabian sea, over gulf of Mannar, along and off Sri Lanka coast, many parts of south and central Bay of Bengal. squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over many parts of southeast & adjoining parts of eastcentral Bay of Bengal. squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over western parts of southwest Arabian sea & southwestern parts of westcentral Arabian sea, along and off Somalia coast. Fishermen are advised not to venture into these areas.



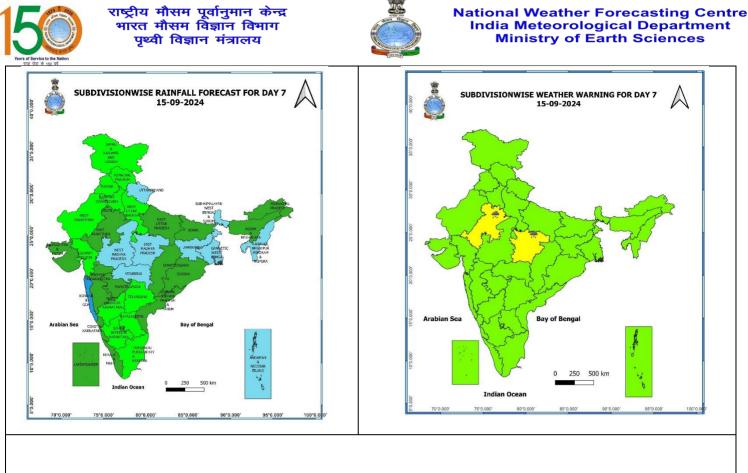
13 September (Day 5):

- ✤ Heavy to very heavy rainfall (≥ 12 cm) likely at isolated places over Uttarakhand, West Uttar Pradesh, Meghalaya, Nagaland, Manipur, Mizoram & Tripura; Heavy rainfall (≥ 7 cm) likely at isolated places East Uttar Pradesh, East Rajasthan, Madhya Pradesh, West Bengal & Sikkim, Bihar, Jharkhand.
- Thunderstorm accompanied with lighting likely at isolated places over Uttarakhand, over East Rajasthan, Madhya Pradesh, Vidarbha.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail many parts of east central & adjoining parts of westcentral Arabian sea, over gulf of Mannar, off Sri Lanka coast, many parts of south and central Bay of Bengal, southern parts of northwest Bay of Bengal. squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over many parts of southeast & adjoining parts of eastcentral Bay of Bengal. squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over western parts of southwest Arabian sea & southwestern parts of westcentral Arabian sea, along and off Somalia coast. Fishermen are advised not to venture into these areas.



14 September (Day 6):

✤ Heavy rainfall (≥ 7 cm) likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Assam & Meghalaya.



15 September (Day 7):

◆ Heavy rainfall (≥ 7 cm) likely at isolated places over East Rajasthan & East Madhya Pradesh.

Weather Outlook for subsequent 3 days (During 16th September- 18th September, 2024)

Fairly widespread to widespread rainfall likely over most parts of the country except Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, 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 over Vidarbha, Odisha & Chhattisgarh on 09th; East Madhya Pradesh on 10th September.
- Very heavy rainfall at isolated over Coastal Andhra Pradesh & Yanam & Telangana on 09th; Uttarakhand on 12th & 13th; Haryana-Chandigarh-Delhi on 12th; West Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura during 11th -13th; East Uttar Pradesh, West Madhya Pradesh on 10th & 11th; East Rajasthan on 11th & 12th; East Madhya Pradesh during 09th -11th; Vidarbha, Odisha on 10th; Assam & Meghalaya on 12th & 13th September.
- ✓ Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Coastal Andhra Pradesh & Yanam, Vidarbha; Moderate to high flash flood risk likely over few watersheds & neighbourhoods of Chhattisgarh & Odisha on 09th & 10th 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.
- ✓ Reduction of visibility over sea area due to sea spray induced by strong wind and 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

- ✓ Judicious regulation of offshore/onshore Operations
- ✓ 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

- ✓ Postpone transplanting of rice in North Coastal **Andhra Pradesh**.
- ✓ Drain out excess water from rice, soybean, red gram, maize, cotton and turmeric in **Telangana**; from rice, finger millet, maize and groundnut in **Odisha**; from rice, maize, sugarcane, black gram, horse gram and niger crops in **Chhattisgarh** to prevent water logging.
- ✓ Make provision for draining out excess water from standing crop fields and fruit orchards to avoid water stagnation in Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, Haryana, East Rajasthan, Gangetic West Bengal, Sub Himalayan West Bengal, Jharkhand, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Gujrat region, Kerala, and Karnataka.
- ✓ Provide mechanical support to horticultural crops & staking to vegetables.
- ✓ Keep the harvested produce at safer place.





National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

ANNEXURE I

Flash Flood Guidance:

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

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

Coastal AP & Yanam - East Godavari, Srikakulam, Vishakhapatnam and Vizianagaram districts.

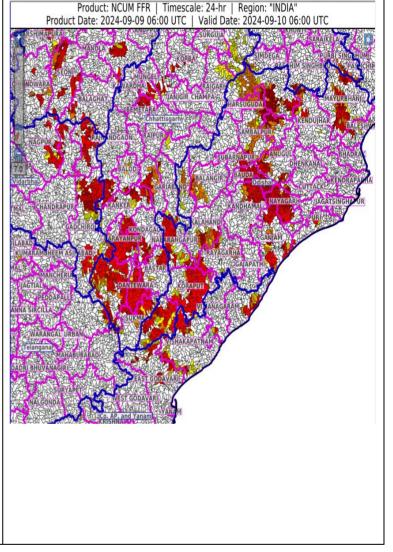
Vidarbha - Bhandara, Gadchiroli, Gondiya and Nagpur

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of following Met Subdivisions during next 24 hours.

Chhattisgarh - Balod, Bastar, Bemetara, Bijapur, Bilaspur, Dantewara, Dhamtari, Gariaband, Kanker, Kondagaon, Mungeli, Narayanpur and Sukma districts.

Odisha - Balangir, Baleshwar, Bauda, Deogarh, Ganjam, Jagatsinghapur, Kalahandi, Kandhamal, Kendujhar, Koraput, Malkangiri, Mayurbhanj, Nabarangapur, Nayagarh, Nuaparha, Puri, Rayagarha, Sambalpur, Subarnapur and Sundargarh 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.





राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



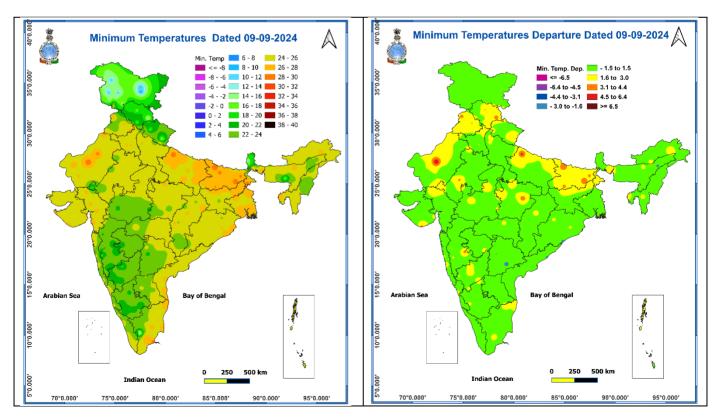
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Fig. 1: Maximum Temperatures

Maximum Temperatures Departure Dated 08-09-2024 40°0.00 A Maximum Temperatures Dated 08-09-2024 0.04 35°0.000' 10 - 12 24 - 26 38 - 40 12 - 14 26 - 28 40 - 42 14 - 16 28 - 30 42 - 44 16 - 18 30 - 32 44 - 46 Max. Temp. Dep. - 1.5 to 1.5 35°0.000' Max. Temp 10 - 12 0 - 2 -4.4 to -3.1 = 4.5 to 6 2 - 4 18 - 20 32 - 34 46 - 48 20 - 22 34 - 36 >48 4 - 6 30°0.000 6 - 8 30°0.000 22 - 24 36 - 38 8 - 10 25°0.000' 20°0.000' 20°0.000 15°0.000 je B 15°0. Arabian Sea -000 10°0.000 4 0.0 . ∇_{θ} 8 8 250 500 500 250 Indian Ocea Indian Ocear Ì 5°0.000 5 80°0.000' 95°0.000 70°0.000 75°0.000' 85°0.000' 90°0.000' 70°0.000 75°0.000' 80°0.000 90°0.000 95°0.000 85°0.000

Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



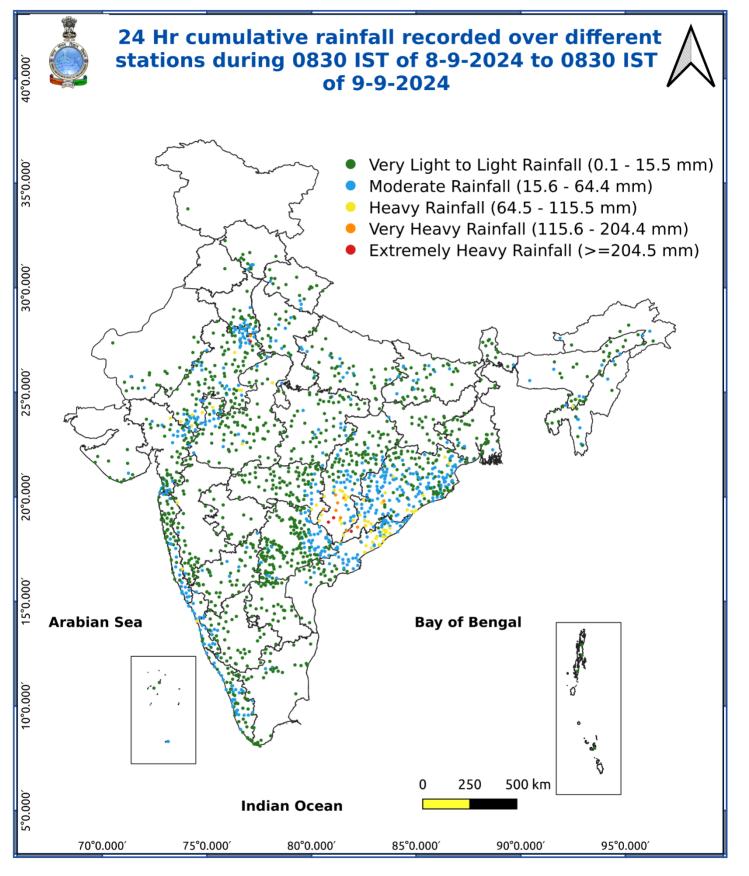
* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since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

Fig. 2: Departure of Maximum Temperatures





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



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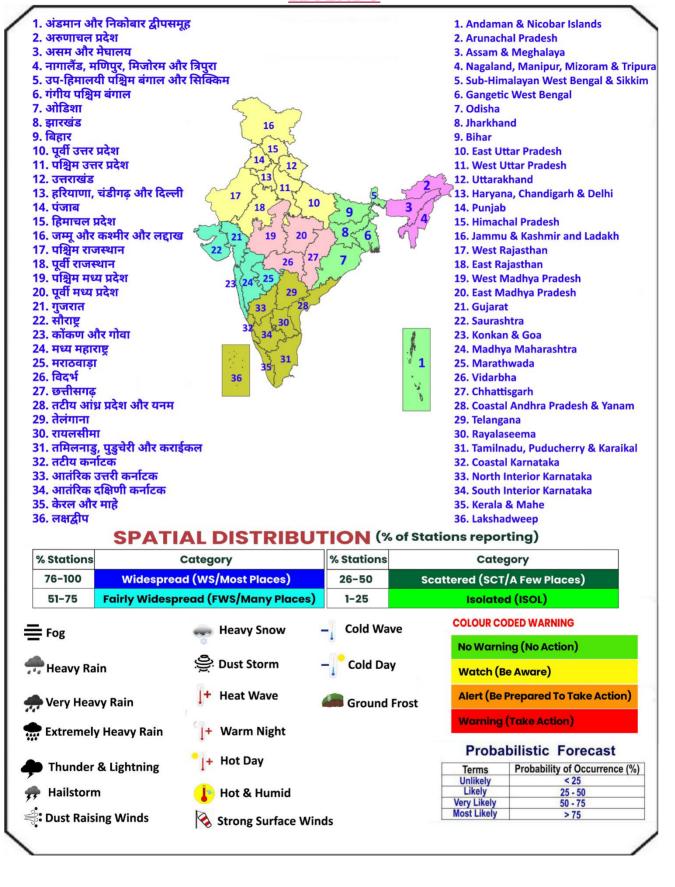






National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

LEGENDS







	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 *
	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 ≤ 4.0 °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
understorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
Oust/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 auddenly lasts for atlasst 4 minute
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
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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 118-185 kmph (64 - 89 khots)
	Super Cyclone Strom: Wind speed >220 kmph (>119 knots)