राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Friday, May 17, 2024 Time of Issue: 0800 hours IST (MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- Southwest Monsoon is very likely to advance into South Andaman Sea, some parts of Southeast Bay of Bengal and Nicobar Islands around 19th May, 2024.
- A cyclonic circulation lies over Comorin area & adjoining south Tamil Nadu coast and a trough runs from this cyclonic circulation to Lakshadweep in lower tropospheric levels. Under their influence:
- Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm**, **lightning & gusty winds (40-50 kmph)** likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, south Karnataka and Isolated light to moderate rainfall accompanied with **thunderstorm**, **lightning & gusty winds (30-40 kmph)** over Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema during next 7 days.
- ➤ Isolated heavy rainfall very likely over Tamil Nadu-Puducherry-Karaikal, Kerala-Mahe; South Interior Karnataka during 17th-21st; over Coastal Karnataka during 17th-19th and Lakshadweep during 19th-21st May, 2024.
- Isolated very heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal during 17th-21st; Kerala & Mahe and South Interior Karnataka during 18th-21st May, 2024.
- ► Isolated extremely heavy rainfall also very likely over Tamil Nadu and Kerala on 20th May, 2024.
- ➤ Isolated light rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Konkan & Goa, Madhya Maharashtra, Marathawada during 17th-18th May.
- Scattered to fairly widespread light to moderate rainfall very likely over Andaman & Nicobar Islands during next 7 days. *Isolated heavy rainfall very likely over Nicobar Islands on 20th May.*
- ➤ Isolated light to moderate rainfall accompanied with **thunderstorm**, **lightning & gusty winds (30-40 kmph)** very likely over Odisha during next 7 days; over Bihar, Jharkhand, Gangetic West Bengal during 19th-22nd May.
- ❖ A cyclonic circulation lies over northeast Assam & neighbourhood in lower tropospheric levels. Under its influence:
- > Scattered to fairly widespread light to moderate rainfall accompanied with **thunderstorm**, **lightning & gusty winds** (40-50 kmph) very likely over Sub-Himalayan West Bengal & Sikkim during next 7 days.
- ➤ Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm**, **lightning & gusty winds** (30-40 kmph) very likely over Arunachal Pradesh, Assam, Meghalaya, Nagaland, Manipur, Mizoram and Tripura during next 7 days.
- > Isolated heavy rainfall also likely over Sikkim on 19th & 20th; Arunachal Pradesh during 17th-19th and Assam & Meghalaya during 17th-20th May, 2024.
- ❖ A fresh Western Disturbance likely to affect Western Himalayan region from 17th May. Under its influence; Isolated to scattered light rainfall activity very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 17th-19th May, 2024.

Maximum temperature observation:

❖ Areas having maximum temperatures greater than 43°C: Yesterday, maximum temperatures were in the range of 43-46°C in most places over Rajasthan; in many places over south Haryana, Gujarat Region and Uttar Pradesh, in some places over Bihar and Madhya Pradesh. These were above normal by 2-4°C over these regions.

Heat Wave and Hot & Humid weather warning for next 5 days:

- ❖ Heat wave conditions very likely in isolated/some pockets over Rajasthan, Punjab, Haryana and Uttar Pradesh during 17th-21st; north Madhya Pradesh during 18th-21st May, 2024. Severe Heat wave conditions also very likely in some parts of West Rajasthan during 17th-21st; Punjab, Haryana-Delhi during 18th-21st May, 2024.
- ♦ Heat wave conditions very likely in isolated pockets over Gujarat state during 17th-18th; Bihar during 17th-19th; Jharkhand during 18th-21st; Gangetic West Bengal on 18th & 19th; Odisha during 19th-21st May, 2024.
- ❖ Hot and humid weather very likely to prevail over Sub-Himalayan West Bengal on 17th May.







Main Weather Observations:

- ❖ Rainfall distribution (from 0830 hours IST to 1730 hours IST of yesterday): at many places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; at a few places over Coastal Andhra Pradesh & Yanam and at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, East Madhya Pradesh, Vidarbha, Telangana, Konkan & Goa, Interior Karnataka, Madhya Maharashtra.
- ❖ Heavy rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): Very heavy rainfall recorded at isolated places over Assam & Meghalaya.
- ❖ Significant amount of rainfall (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): Assam & Meghalaya: Shillong-13; Telangana: Hyderabad-6; Tamil Nadu, Puducherry & Karaikal: valparai-6 and Kanyakumari-3; Kerala & Mahe: Thiruvananthapuram- 6 and Panalur-2; Coastal Andhra Pradesh & Yanam: Onngole-5; North Interior Karnataka: Belgaum-4 and Vidarbha-2.
- ❖ Yesterday, **Heatwave conditions** prevailed in isolated pockets of Gujarat state.
- ❖ Minimum Temperature Departures (as on 16-05-2024): Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Bihar; at isolated places over West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at a few places over Gangetic West Bengal and Andaman & Nicobar Islands; at isolated places over East Rajasthan, East Uttar Pradesh, Jharkhand, Odisha, Gujarat State, Konkan & Goa and Madhya Maharashtra. These were appreciably below normal (-3.1°C to -5.0°C) at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over East Madhya Pradesh, Vidarbha and Telangana; below normal (-1.6°C to -3.0°C) at a few places over West Madhya Pradesh and Lakshadweep; at isolated places over Himachal Pradesh, Uttarakhand and Delhi and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.0°C was reported at Bulandshahr (West Uttar Pradesh) over the plains of the country.
- *Maximum Temperature Departures (as on 16-05-2024): Maximum temperatures were markedly above normal (5.1°C or more) at few places over Assam & Meghalaya; at isolated places over Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura and Bihar; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Himachal Pradesh, Gujarat state and Konkan & Goa; above normal (1.6°C to 3.0°C) at most places over Haryana-Chandigarh-Delhi; at many places over Uttarakhand; at a few places over Uttar Pradesh; at isolated places over Andaman & Nicobar Islands, Rajasthan, Jharkhand, Gangetic West Bengal and Kerala & Mahe. These were markedly above normal (-5.1°C or less) at isolated places over East Madhya Pradesh, Vidarbha, Telangana, Marathwada, North Interior Karnataka and Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at a few places over Chhattisgarh; at isolated places over West Madhya Pradesh, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 46.3°C was reported at Sri Ganganagar (Rajasthan) over the country.



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



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Meteorological Analysis (Based on 0530 hours IST)

- ❖ The cyclonic circulation over Comorin area & adjoining south Tamil Nadu coast between 1.5 km & 4.5 km above mean sea level persists.
- ❖ The east-west trough from the cyclonic circulation over Comorin area & adjoining south Tamil Nadu to Lakshadweep area at 1.5 km above mean sea level persists.
- ❖ The trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along long. 82°E to the north of lat. 25°N persists.
- ❖ The cyclonic circulation over central parts of East Rajasthan & neighbourhood at 0.9 km above mean sea level persists.
- The cyclonic circulation over northwest Rajasthan & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over south Bihar & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over south Bangladesh at 1.5 km above mean sea level persists.
- The cyclonic circulation over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- The cyclonic circulation over southwest Madhya Pradesh at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over westcentral Arabian Sea off Yemen coast between 3.1 & 4.5 km above mean sea level persists.
- Southwest Monsoon is very likely to advance into South Andaman Sea, some parts of Southeast Bay of Bengal and Nicobar Islands around 19th May, 2024.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan Region from 17th May, 2024.

Weather Forecast for next 7 days (Upto 0830 hours IST of 24th May, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1
- ❖ Gradual rise by about 2-3°C in maximum temperatures very likely over many parts of Northwest India and Gujarat state during next 2 days and no significant change thereafter.
- ❖ Gradual rise by about 2-4°C in maximum temperatures very likely over many parts of Central, East India and Maharashtra during next 3-4 days.
- * No significant change in maximum temperatures very likely over rest parts of the country.

Weather Outlook for subsequent 3 days (During 24th-26th May, 2024)

- ❖ Isolated to scattered light/moderate rainfall likely over Western Himalayan Region, Central, East, Northeast & south Peninsular India.
- ❖ Isolated to scattered fairly widespread to widespread rainfall likely over Islands.
- ❖ Dry weather likely to prevail over rest parts of the country.



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Table-1

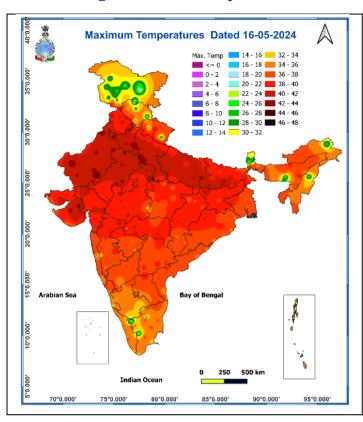
| | 7 Days Rainfall Forecast | | | | | | | |
|-----|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| C | | 17- | 18- | 19- | 20- | 21- | 22- | 23- |
| S. | Subdivision | May |
| No. | | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 |
| 1 | ANDAMAN & NICOBAR ISLANDS | FWS | WS | WS | WS | WS | WS | WS |
| 2 | ARUNACHAL PRADESH | WS | WS | WS | WS | FWS | FWS | FWS |
| 3 | ASSAM & MEGHALAYA | FWS | WS | WS | WS | FWS | FWS | FWS |
| 4 | NAGALAND, MANIPUR, MIZORAM & TRIPURA | SCT | SCT | FWS | FWS | FWS | FWS | FWS |
| 5 | SUB-HIMALAYAN WEST BENGAL & SIKKIM | SCT | SCT | WS | WS | FWS | FWS | FWS |
| 6 | GANGETIC WEST BENGAL | DRY | DRY | ISOL | SCT | SCT | SCT | SCT |
| 7 | ODISHA | ISOL | ISOL | ISOL | ISOL | SCT | SCT | SCT |
| 8 | JHARKHAND | DRY | DRY | ISOL | ISOL | ISOL | SCT | SCT |
| 9 | BIHAR | DRY | DRY | ISOL | ISOL | ISOL | SCT | SCT |
| 10 | EAST UTTAR PRADESH | DRY | DRY | DRY | DRY | ISOL | ISOL | ISOL |
| 11 | WEST UTTAR PRADESH | DRY |
| 12 | UTTARAKHAND | ISOL |
| 13 | HARYANA CHANDIGARH & DELHI | DRY |
| 14 | PUNJAB | DRY |
| 15 | HIMACHAL PRADESH | ISOL |
| 16 | JAMMU & KASHMIR AND LADAKH | ISOL | SCT | SCT | ISOL | ISOL | ISOL | ISOL |
| 17 | WEST RAJASTHAN | DRY |
| 18 | EAST RAJASTHAN | DRY |
| 19 | WEST MADHYA PRADESH | ISOL | DRY | DRY | DRY | DRY | DRY | DRY |
| 20 | EAST MADHYA PRADESH | ISOL | DRY | DRY | DRY | DRY | DRY | DRY |
| 21 | GUJARAT REGION | DRY |
| 22 | SAURASHTRA & KUTCH | DRY |
| 23 | KONKAN & GOA | ISOL |
| 24 | MADHYA MAHARASHTRA | ISOL |
| 25 | MARATHAWADA | ISOL |
| 26 | VIDARBHA | ISOL | ISOL | DRY | DRY | DRY | DRY | DRY |
| 27 | CHHATTISGARH | ISOL |
| 28 | COASTAL ANDHRA PRADESH & YANAM | ISOL |
| 29 | TELANGANA | ISOL |
| 30 | RAYALASEEMA | SCT | SCT | ISOL | ISOL | ISOL | ISOL | ISOL |
| 31 | TAMILNADU PUDUCHERRY & KARAIKAL | FWS | FWS | FWS | FWS | SCT | SCT | SCT |
| 32 | COASTAL KARNATAKA | WS | WS | FWS | FWS | FWS | SCT | SCT |
| 33 | NORTH INTERIOR KARNATAKA | SCT | SCT | SCT | ISOL | ISOL | ISOL | ISOL |
| 34 | SOUTH INTERIOR KARNATAKA | FWS | FWS | FWS | FWS | SCT | SCT | SCT |
| 35 | KERALA & MAHE | WS |
| 36 | LAKSHADWEEP | FWS | WS | WS | WS | WS | WS | WS |

| Legend | Category | % Stations | |
|--------|-------------------------------|---------------|--|
| WS | Widespread/Most Places | 76-100 | |
| FWS | Fairly Widespread/Many Places | 51-75 | |
| SCT | Scattered/ A Few Places | 26-50 | |
| ISOL | Isolated Places | 1-25 | |
| DRY | No Rain | 0 | |



Fig. 1: Maximum Temperatures





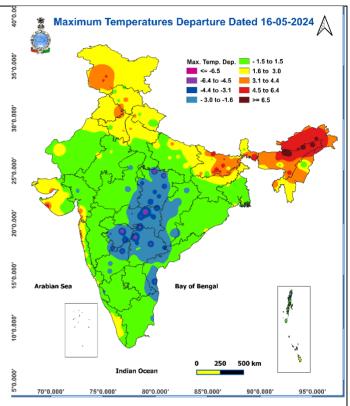
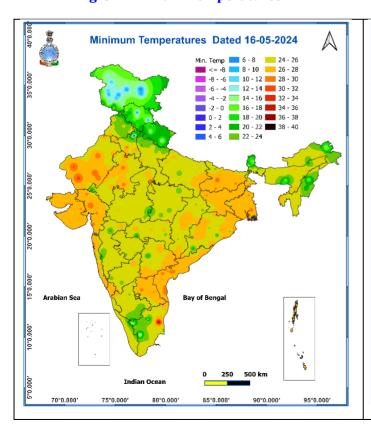
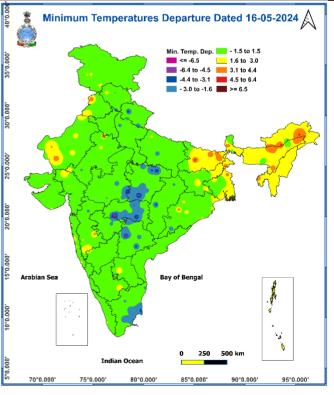


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



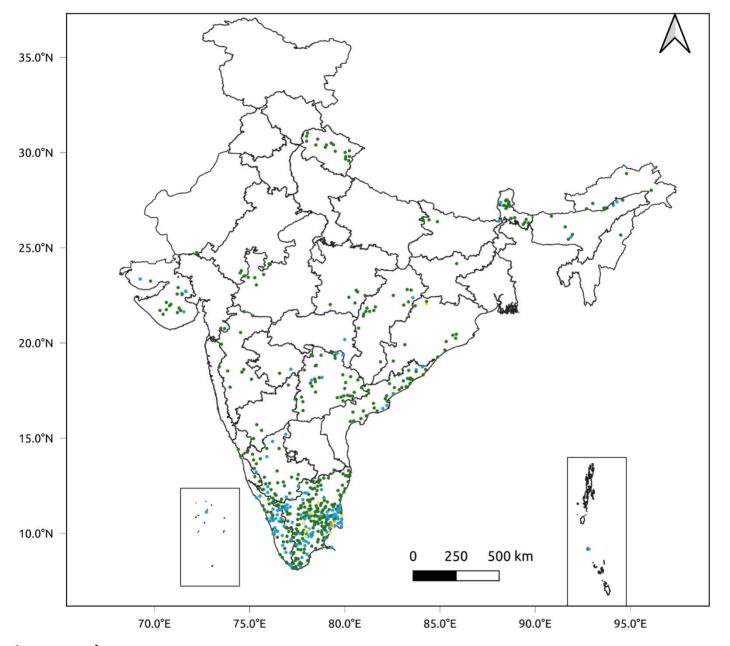








24 Hr cumulative rainfall recorded over different stations during 0830 IST of 15-5-2024 to 0830 IST of 16-5-2024



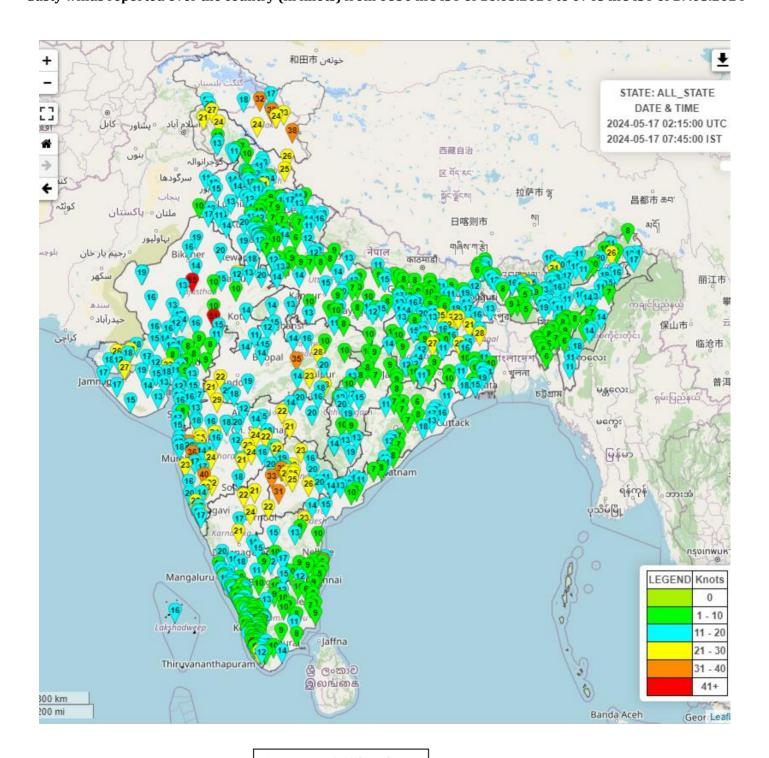
Legends

- 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)





Gusty winds reported over the country (in knots) from 0830 hrs IST of 16.05.2024 to 0745 hrs IST of 17.05.2024

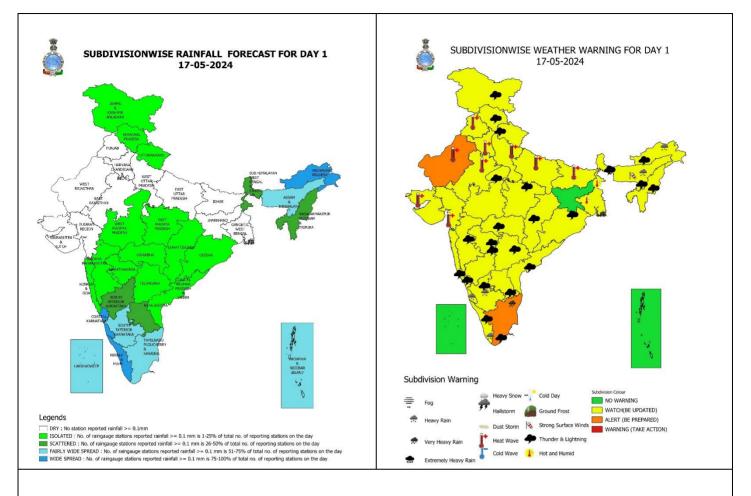


1 Knot = 1.852 kmph

For more details, kindly refere: http://aws.imd.gov.in:8091/





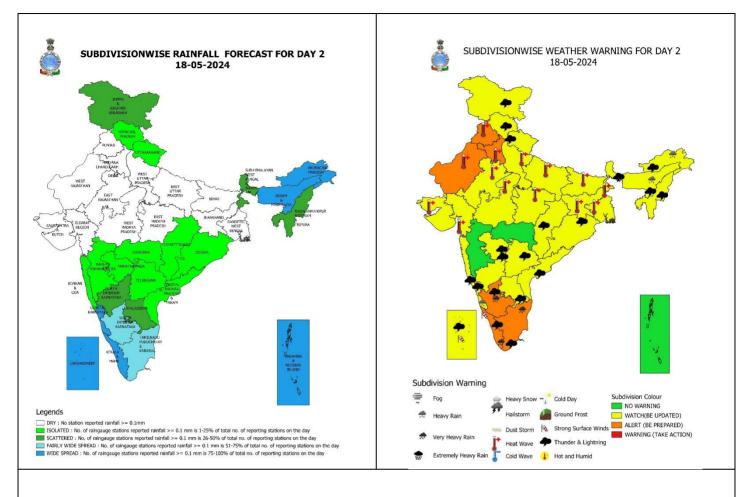


17 May (Day 1):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over East Madhya Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Vidarbha, Chhattisgarh, Odisha, Nagaland, Manipur, Mizoram & Tripura and Telangana; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada and Coastal Karnataka.
- ❖ Heavy to very Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal; Heavy rainfall at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Karnataka, South Interior Karnataka and Kerala & Mahe.
- ❖ Heat Wave to severe heat wave Conditions very likely to prevail in some parts of West Rajasthan, Heat Wave conditions very likely in some parts of Punjab, Haryana; in isolated pockets Uttar Pradesh, East Rajasthan, Bihar and Gujarat State.
- ❖ Hot and humid weather very likely to prevail over West Bengal.
- ❖ Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph very likely to prevail Comorin area, Gulf of Mannar, along and off south Tamil Nadu coast, along and off Sri Lanka coast and adjoining southwest Bay of Bengal. Fishermen are advised not to venture into these areas.





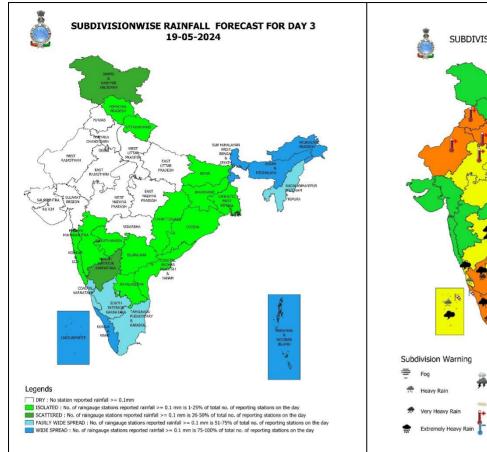


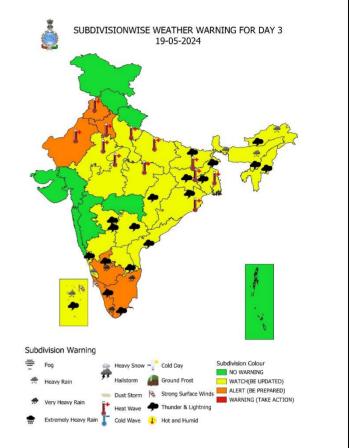
18 May (Day 2):

- ❖ Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Chhattisgarh; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Marathwada, Konkan & Goa, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Coastal Karnataka and Lakshadweep.
- Heavy to very heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and South Interior Karnataka and Heavy rainfall at isolated places over Arunachal Pradesh, Assam & Meghalaya and Coastal Karnataka.
- ❖ Heat Wave to severe heat wave Conditions very likely to prevail in many parts of Punjab and Haryana; in some parts of West Rajasthan and heat wave conditions in some parts of Uttar Pradesh; in isolated pockets over Delhi, West Bengal, Bihar, Jharkhand, Gujarat State and north Madhya Pradesh.
- ❖ Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph Likely to Prevailing Over Maldives Area and Adjoining Lakshadweep Area, along and off south Kerala Coast, Comorin Area, Gulf of Mannar. Fishermen are advised not to venture into these areas.







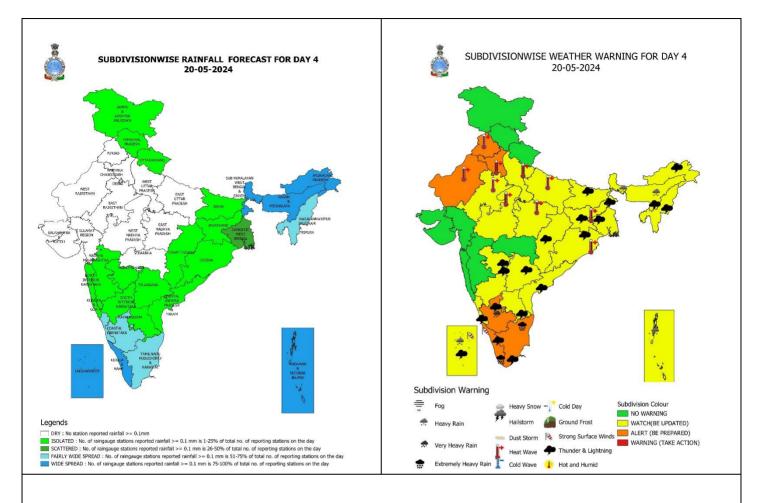


19 May (Day 3):

- ❖ Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Tamil Nadu, Puducherry & Karaikal and Interior Karnataka; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jharkhand, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Chhattisgarh and Kerala & Mahe; with lightning at isolated places over Marathwada, Gangetic West Bengal, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Lakshadweep.
- Heavy to very heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and South Interior Karnataka and Heavy rainfall at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Karnataka, Lakshadweep and Sikkim.
- ❖ Heat Wave to severe heat wave Conditions likely to prevail in many parts over Punjab and Haryana; in some parts over West Rajasthan; and heat wave conditions in some parts of Uttar Pradesh; in isolated pockets over Delhi, East Rajasthan, Gangetic West Bengal, Bihar, Jharkhand, Odisha and north Madhya Pradesh.
- ❖ Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph Likely to Prevailing Over Maldives Area and Adjoining Lakshadweep Area, along and off south Kerala Coast, Comorin Area, Gulf of Mannar. Fishermen are advised not to venture into these areas.





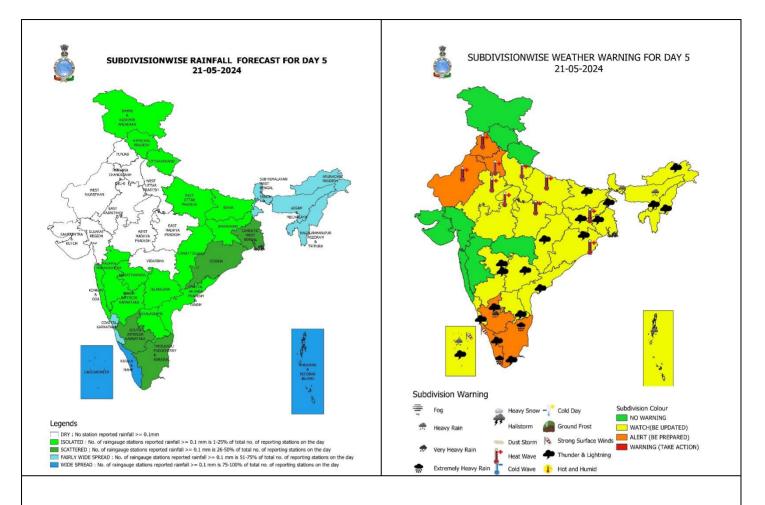


20 May (Day 4):

- ❖ Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar and Tamil Nadu, Puducherry & Karaikal; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Chhattisgarh, Gangetic West Bengal, Jharkhand, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana; with lightning at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep and Interior Karnataka.
- ❖ Heavy to very Heavy rainfall with extremely heavy falls likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; Heavy to very heavy rainfall at isolated places over South Interior Karnataka and Heavy rainfall at isolated places over Sikkim, Assam & Meghalaya, Lakshadweep and Nicobar Islands.
- ❖ Heat Wave to severe heat wave Conditions likely to prevail in many parts over Punjab and Haryana; in some parts over West Rajasthan; and heat wave conditions in some parts of Uttar Pradesh; in isolated pockets over Delhi, East Rajasthan, Gangetic West Bengal, Bihar, Jharkhand, Odisha and north Madhya Pradesh.
- ❖ Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph Likely to Prevailing Over Maldives Area and Adjoining Lakshadweep Area, along and off south Kerala Coast, Comorin Area, Gulf of Mannar. Fishermen are advised not to venture into these areas.







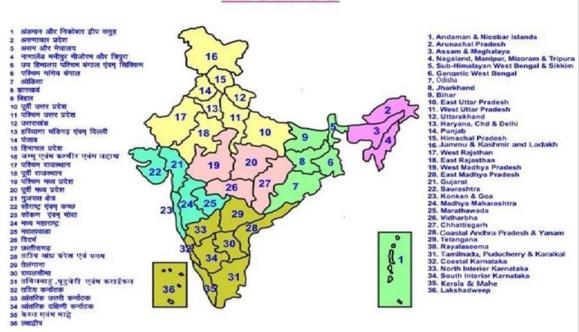
21 May (Day 5):

- ❖ Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar and Tamil Nadu, Puducherry & Karaikal; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Chhattisgarh, Gangetic West Bengal, Jharkhand, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana; with lightning at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep and Interior Karnataka.
- ❖ Heavy to very Heavy rainfall likely at isolated places over South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and Heavy rainfall at isolated places over Sikkim, Assam & Meghalaya, Lakshadweep and Nicobar Islands.
- ❖ Heat Wave to severe heat wave Conditions likely to prevail in many parts over Punjab and Haryana; in some parts over West Rajasthan; and heat wave conditions in some parts of Uttar Pradesh; in isolated pockets over Delhi, East Rajasthan, Gangetic West Bengal, Bihar, Jharkhand, Odisha and north Madhya Pradesh.
- ❖ Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph likely to Prevailing Over Maldives Area and Adjoining Lakshadweep Area, along and off south Kerala Coast, Comorin Area, Gulf of Mannar. Fishermen are advised not to venture into these areas.









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 Widespred (FWS/ Many Places) | 1-25 | Isolated (ISOL) |

WARNING

| WARNING (TAKE ACTION) | | | |
|-------------------------|--|--|--|
| ALERT (BE PREPARED) | | | |
| WATCH (BE UPDATED) | | | |
| NO WARNING (NO ACTION) | | | |

Probabilistic Forecast

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





LEGENDS Probabilistic Forecast WARNING WARNING (TAKE ACTION) Probability of Occurrence (%) **Terms** < 25 ALERT (BE PREPARED) Likely WATCH (BE UPDATED) Very Likely Most Likely Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm* Rain/ Snow Extremely Heavy: > 204.4 mm/cm When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions (a) Based on Departure from normal Heat Wave: 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** 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 Warm 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. Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C (b) Based on actual Minimum Temperature (for Plains only) Cold Wave Cold Wave : When Minimum Temperature is ≤ 4.0 °C Severe Cold Wave: When Minimum Temperature is < 2.0 °C (c) For Coastal Stations When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C. Cold Day Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Fog: When the visibility between 500-200 metres 0 Dense Fog: when the visibility between 50- 200 metres Fog Very Dense Fog: when the visibility < 50 metres 44 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) Thunderstorm An ensemble of particles of dust or sand energetically lifted to great heights by a strong and **Dust/Sand** turbulent wind. Storm Ice deposits on ground Air temperature ≤4°C (over Plains) Frost A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph 4 Severe: Wind speed 62-87 kmph Squall Very Severe: Wind speed >87 kmph Effect of various waves in the sea over specific area Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre Sea State Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots) 9 Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) Cyclone Super Cyclone Strom: Wind speed >220 kmph (>119 knots)