

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 24 April 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance as a cyclonic circulation now lies over northeastern parts of Ladakh & neighbourhood at 4.5 km above mean sea level. The trough aloft with its axis at 7.6 km above mean sea level now runs roughly along Longitude 80°E to the north of latitude 30°N and is moving away northeastwards. Under its influence; isolated rainfall/snowfall very likely over Himachal Pradesh and Uttarakhand today, the 24th April.
- A fresh feeble Western Disturbance likely to affect Western Himalayan Region from 27th April, 2021 causing isolated rainfall/snowfall with thunderstorm & gusty winds over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh and Uttarakhand during 27th-30th April.
- A North-South trough runs from Marathawada to south coastal Tamil Nadu across North Interior Karnataka, Telangana and Rayalaseema in lower tropospheric levels. Under its influence, scattered to fairly widespread rainfall/thunderstorm very likely over Kerala & Mahe and isolated to scattered rainfall/thunderstorm over remaining parts of south Peninsular India during next 4-5 days. Isolated heavy rainfall also likely over Kerala & Mahe on 24th and over South Interior Karnataka on 27th April, 2021.
- Strong surface winds (speed reaching 20-30 kmph) very likely over Punjab, Haryana, Chandigarh & Delhi and north Rajasthan on 25th & 26th April, 2021.
- No significant heat wave conditions likely over the country during next 4-5 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hrs IST of today): at most places over Himachal Pradesh and Uttarakhand; at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over Punjab, Haryana, Chandigarh & Delhi, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Rayalaseema and Tamil Nadu, Puducherry & Karaikal and at isolated places over Rajasthan, West Uttar Pradesh, Arunachal

Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Odisha, Telangana, North Interior Karnataka and Kerala & Mahe.

- Thunderstorm observed (from 2030 hours IST of yesterday to 0830 hrs IST of today): at isolated places over West Rajasthan, Telangana and Interior Karnataka. Hailstorm observed at Tehri, Chakrata, Mussorie & Nainital (Uttarakhand).
- Maximum Temperature Departures as on 23-04-2021: Maximum temperatures were markedly above low normal (5.1°C or more) at a few places over Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at a few places over Arunachal Pradesh; above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Gangetic West Bengal, Gujarat and Tamilnadu, Puducherry & Karaikal and at isolated places over Konkan & Goa. They were markedly below normal (-5.1°C or less) at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab and Haryana, Chandigarh & Delhi; at many places over Uttarakhand and West Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at most places over West Uttar Pradesh and below normal (-1.6°C to -3.0°C) at most places over Marathwada; at many places over Odisha, Telangana, Rayalaseema and North Interior Karnataka; at a few places over Madhya Maharashtra, Chhattisgarh and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.8°C was reported at Banda (East Uttar Pradesh).
- Minimum Temperature Departures as on 24-04-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Saurashtra & Kutch; at many places over Gujarat region and at isolated places over Gangetic West Bengal and Tamilnadu, Puducherry & Karaikal. They are markedly below normal (-5.1°C or less) at most places over Himachal Pradesh and Haryana, Chandigarh & Delhi; at many places over Uttarakhand and Punjab; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at isolated places over Rajasthan and West Uttar Pradesh; appreciably below normal (-3.0°C to -5.0°C) at isolated places over Coastal Andhra Pradesh & Yanam, Telangana, East Madhya Pradesh and Vidarbha; below normal (-1.6°C to -3.0°C) at many places over Bihar; at a few places over Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh and West Madhya Pradesh; at isolated places over Odisha, Madhya Maharashtra, Konkan & Goa, Rayalaseema and South Interior Karnataka and near normal over rest parts of the country. Today, the lowest minimum temperature of 11.7°C reported at Amritsar (Punjab) and Ambala (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 24 April (Day 1): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over South Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Uttarakhand, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal. Heavy rainfall very likely at isolated places over Kerala & Mahe.
- 25 April (Day 2): Thunderstorm with lightning very likely at isolated places over Chhattisgarh, Andaman & Nicobar Islands, Telangana, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- 26 April (Day 3): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Vidarbha, Gangetic West Bengal and with lightning at isolated places over Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Telangana, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- 27 April (Day 4): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Himachal Pradesh, Uttarakhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Marathawada, Coastal & South Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Vidarbha, Chhattisgarh, Odisha, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, North Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Heavy rainfall likely at isolated places over South Interior Karnataka.
- 28 April (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Assam & Meghalaya; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Chhattisgarh, West Bengal & Sikkim, Odisha, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Telangana, North Interior Karnataka and Tamilnadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 24 Apr to 02 May 2021 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from

<http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Kerala

Weather condition:

In Vellanikkara, the maximum temperature ranges from 31.0 to 35.6 Deg C, minimum temperature ranges from 20.0 to 24.4 Deg C. Morning relative humidity ranges from 087% to 098% and afternoon relative humidity ranges from 055% to 070%. Wind speed ranges from 0.4 to 2.6 km/h. Evaporation ranges from 1.6 to 4.5 mm. Sunshine hours range from 0.0 to 9.7 hours. 5 cm morning soil temperature ranges from 26.5 to 28.5 Deg C and afternoon soil temperature ranges from 32.4 to 41.4 Deg C.

Contingency measure:

- Rice - Dry sown crop is starting, the land should be prepared well by through ploughing and levelling. Dress the seeds with pseudomonas before sowing. (10 gram of pseudomonas per one kg of paddy seeds.)
- Coconut -Management -During the beginning of southwest monsoon season, one-kilogram lime can be applied per one matured palm by opening the coconut basin.
- Banana- Sigatoka disease- There is a chance of sigatoka disease in banana. As a precaution, Spray 20 g Pseudomonas per one liter of water.
- Ginger,Turmeric- Planting time- While preparing land for ginger and turmeric cultivations apply 2 to 3 kg lime per cent. As a prophylactic measure against foot rot disease, the ginger and turmeric rhizome should be soaked in the 0.3 percent mancozeb or pseudomonas solution (3 gram per one litter of water) for 30 minutes. Moreover 90 kg FYM mixed with one kg Trichoderma and kept under shade for two weeks with sufficient moisture and can be applied.
- Animal Husbandry- Assure increased ventilation in the shed.

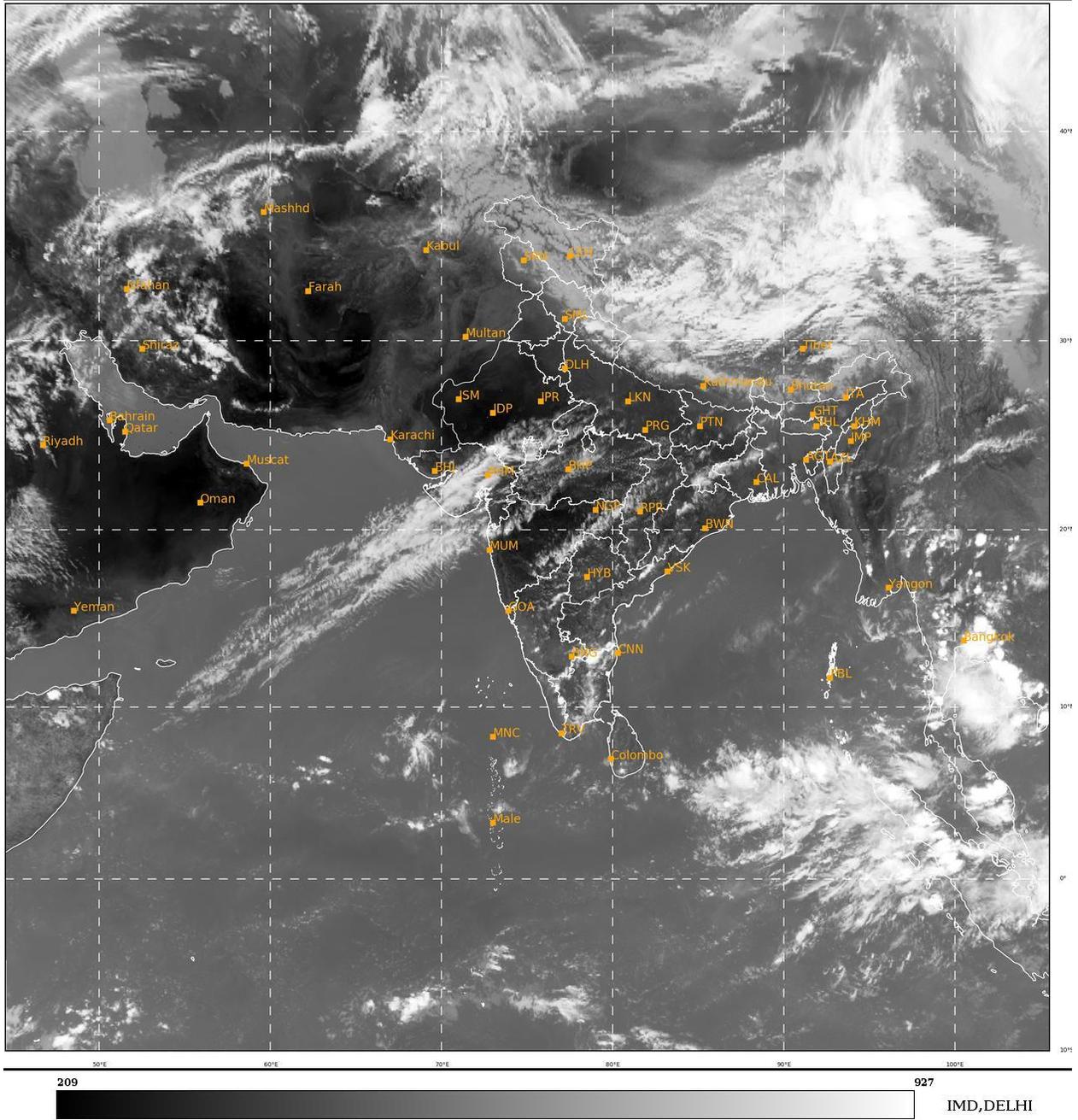


Figure: 1. Latest available satellite picture as on 24 April 2021 at 1426 Hrs (IST). (Source: IMD).

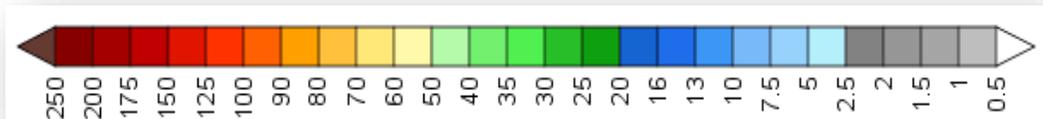
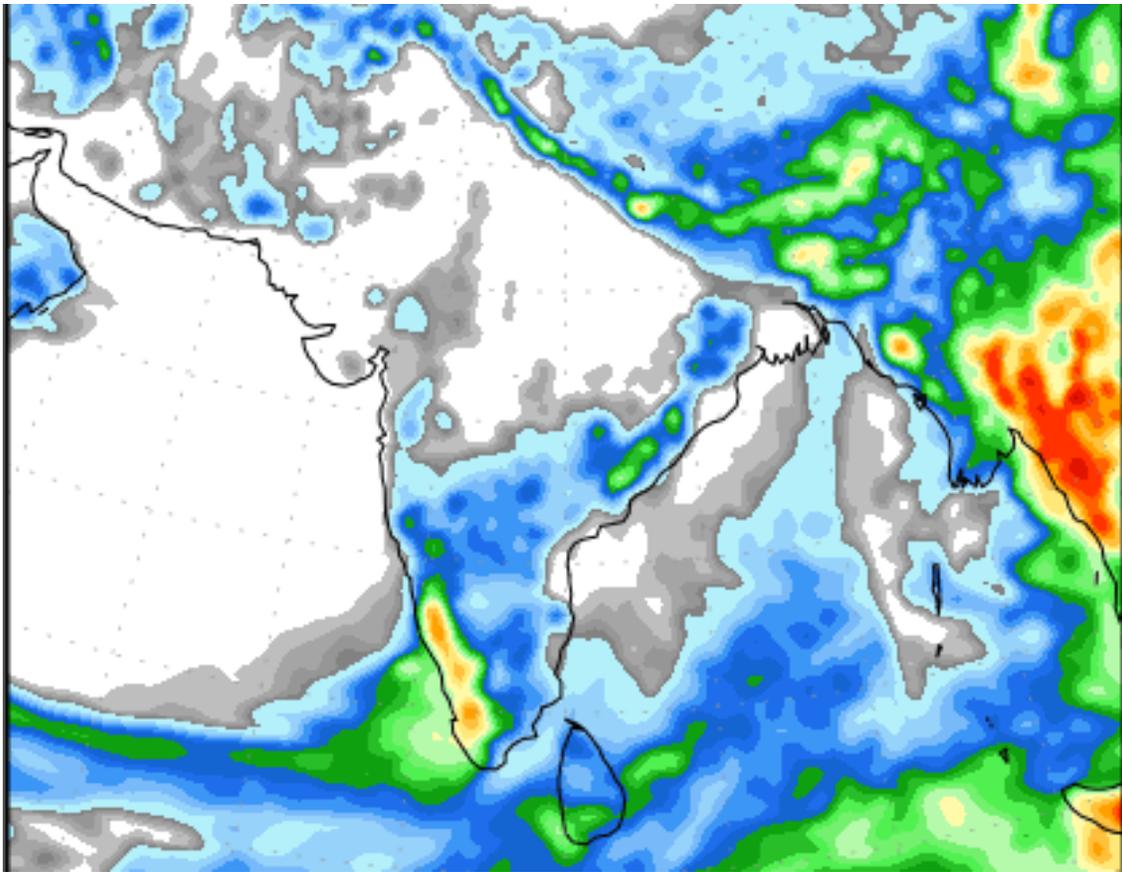


Figure:2. Precipitation forecast for 24 Apr to 02 May 2021 (Source: NOAA NCEP).

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